

EA02-027

FORD 8/5/03

LETTER TO ODI

APPENDIX A

5 BOXES

BOX 5 OF 5

PART 3 OF 4

Subject: DPFE EGR Sensor Pre-Review (for 3/25 Tech Review)
Location: J. Koszewnik's Conf. Rm. (AA140, POEE)

Start: Fri 3/22/2002 1:00 PM
End: Fri 3/22/2002 2:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Koszewnik, John (J.J.); O'Neill, Jim (J.D.); Maurer, James (J.B.); Gatz, Freeman (F.C.);
Freeland, Mark (M.); Pianta, Paul (P.G.); Koszewnik, John (J.J.)

From: Kotwicki, Allan (A.J.)
Sent: Monday, November 04, 2002 4:57 PM
To: Frøeland, Mark (M.)
Subject: filter20.pdf

the file is in the share drive at /allshare/akotwick

Thanks in advance for your help,

Allan J. Kotwicki
313-59-41277
313-337-5639 FAX
akotwick@ford.com
MD 3618 SRL

From: Kotwicki, Allan (A.J.)
Sent: Monday, October 21, 2002 9:43 AM
To: Freeland, Mark (M.)
Subject: RE: Prototypes

His boss, to whom I had already spoken, is Hugh Fader.

Thanks in advance for your help,

Allan J. Kotwicki
313-59-41277
313-337-5639 FAX
akotwick@ford.com
MD 3619 SRL

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, October 18, 2002 9:31 AM
To: Kotwicki, Allan (A.J.); Maurer, James (J.B.)
Cc: Alles, Sheran (S.A.); McCoy, James (J.D.)
Subject: Prototypes

Al,

What was the name of the individual you said could make surface mount mods to the substrates. I think it is time to try and fabricate some parts which are not breadboards.

Currently we have available 4 Rev 1.5 breadboard parts with the AVX TVS, and 1 Rev 1.5 with the Diodes Incorporated TBZ.

No one has asked for prototypes yet, except for Jim McCoy, but I know that eventually they will.

Jim,

Do you have a need for any prototypes?

Regards

Mark Freeland

6-Sigma Black Bolt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Kotwicki, Allan (A.J.)
Sent: Monday, October 21, 2002 9:42 AM
To: Freeland, Mark (M.)
Subject: RE: Prototypes

Pat Kaluszny

Thanks in advance for your help,

Allan J. Kotwicki
313-58-41277
313-397-5639 FAX
akotwick@ford.com
MD 3619 SRL

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, October 18, 2002 9:31 AM
To: Kotwicki, Allan (A.J.); Maurer, James (J.B.)
Cc: Alias, Sheran (S.A.); McCoy, James (J.D.)
Subject: Prototypes

Al,

What was the name of the individual you said could make surface mount mods to the substrates. I think it is time to try and fabricate some parts which are not breadboards.

Currently we have available 4 Rev 1.5 breadboard parts with the AVX TVS, and 1 Rev 1.5 with the Diodes Incorporated TBZ.

No one has asked for prototypes yet, except for Jim McCoy, but I know that eventually they will.

Jim,

Do you have a need for any prototypes?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Kotwicki, Allan (A.J.)
Sent: Tuesday, October 01, 2002 2:50 PM
To: Alles, Sheran (S.A.)
Cc: Gates, Freeman (F.C.); Freeland, Mark (M.); Kotwicki, Allan (A.J.)
Subject: RE: Summary of design steps

Freeman Gates has said that he will attempt to get us EEC and PTEC VREF power supply schematics, for the Focus and Mountaineer, including possibly device specifications for the respective 3 terminal current regulators. Hopefully this information will be forthcoming to allow a more thorough simulation.

Other than our observations up to the present time, the devices' output current limits and bandwidths can bound the additional capacitance needed.

Thanks in advance for your help,

Allan J. Kotwicki
58-41277
akotwick@ford.com
MD 3619 SRL

-----Original Message-----
From: Alles, Sheran (S.A.)
Sent: Tuesday, October 01, 2002 1:51 PM
To: Freeland, Mark (M.); Kotwicki, Allan (A.J.)
Cc: Alles, Sheran (S.A.)
Subject: Summary of design steps

Hi Mark, Al

Just dotted down the design methodology we followed, that Mark started, including some detail. Please make any additions/changes as necessary, your feedback is always appreciated. I am at present doing some simple simulations. Let's meet tomorrow to discuss any further testing/simulation/design changes.

Mark, did you observe any current spikes on the Pearson ring with no voltage probes attached, as we discussed yesterday?

<< File: Items that were considered.doc >>

Regards
-Sheran

From: Kwon, Soon (S.K.)
Sent: Monday, April 08, 2002 9:49 AM
To: McGee, Brett (B.L.); Spangler, David (D.R.); Hoshino, Jun (J.); Hamano, Naoumi (N.)
Cc: Jao, Jack (J.); Gates, Freeman (F.C.); Freeland, Mark (M.); Chen, Smith S N (S.); Maurer, James (J.B.)
Subject: RE: DPFE EGR Part Concern

Info.

Regards,

Soon Kwon

Escape/Tribute P/T OPD Supervisor

Compact Utility PTSE, TVC

2FB38, MD 405, PDC Dearborn 48126

Phone (313) 322-6844, Fax

Pager (313) 795-1538, email: skwon@ford.com

—Original Message—

From: Freeland, Mark (M.)

Sent: Monday, April 08, 2002 9:42 AM

To: Chen, Smith S N (S.); Maurer, James (J.B.); Kwon, Soon (S.K.)

Cc: Jao, Jack (J.); Gates, Freeman (F.C.); Freeland, Mark (M.)

Subject: RE: DPFE EGR Part Concern

Smith,

Would it be possible to obtain the PCM from the subject vehicle as there is a possibility that a defect in the PCM was the trigger which caused the dPFE sensor to go into the high current mode and become shorted?

Regards

Mark Freeland

> 6-Sigma Black Belt

> Engine Research Department

> Ford Research Laboratory

EP82-827-G 12241

> P.O. Box 2053
> MD 2629 - SRL - Room 1517
> Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: schen16 [mailto:schen16@ford.com]
Sent: Wednesday, April 03, 2002 12:11 AM
To: Maurer, James (J.B.); Kwon, Soon (S.K.)
Cc: Jack Jao; Gates, Freeman (F.C.); Freeland, Mark (M.)
Subject: Re: DPFE EGR Part Concern

Jim:

Please find the attached file for the measuring data of the defeat DPFE EGR part, this case was happened when the customer was driving in city with 40kph cruising, the engine stalled suddenly without any warning signals, after that the ODO Indicator showed "-----" and can not restart engine, this vehicle was buy in Sept, 2001, the accumulated mileage was 7034KM only. It causes the customer very big concern and our S&M people do their best to try to explain and calm down customer's emotion. As your mail, do you have any experience for engine stall? and the improved parts can prevent this engine stall? what actions shall be taken? Any queries of this case you want to understand please let me know.

Regards,

----- Original Message -----

From: "Maurer, James (J.B.)" <jmaurer@ford.com>
To: "Chan, Smith S N (S.)" <schen16@ford.com>
Cc: "Gates, Freeman (F.C.)" <fgates@ford.com>; "Freeland, Mark (M.)" <mfreela1@ford.com>
Sent: Tuesday, April 02, 2002 11:27 PM
Subject: FW: DPFE EGR Part Concern

> Mr. Chen,

>

> Your attached files did not come through to me, so I don't know the
> specifics for your vehicle.

>

> One of the failure modes of the sensor is that it may short and draw a
> high current from the PCM (engine control module). When this happens,
> the voltage that is supplied to the microprocessor inside the PCM is not
> sufficient to keep the PCM operating. When the microprocessor is not
> running, there are no signals to the fuel injectors, ignition coils, and
> other components required to keep the engine running.

>

> The circuit inside the sensor was changed to eliminate this issue. A
> resistor was added to limit the amount of current the sensor would draw
> when it shorted, and another resistor and diode were added to eliminate
> electrical noise issues that could potentially cause the short to occur.
> The new part was released on concern C11286321. Production began
> January 7, 2002.

>

> I am interested in knowing the details about why a customer would sue
> over this issue. Does the customer want you to buy back the vehicle if
> it cannot be fixed? The latest level part should take care of the
> issue.

>

>

> Regards,

> Jim Maurer

> James B. Maurer

> V-Engine 6-Sigma Team Leader

> Fuel Metering Dept. V Engine Engineering

> Phone (313) 390-3672, Fax (313) 390-4084

> Text Page: (313) 795-5219

> Email: jmaurer@Ford.com

>

> —Original Message—

> From: Owens, Karen (K.E.)

> Sent: Tuesday, April 02, 2002 9:58 AM

> To: Chen, Smith S N (S.)
> Cc: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)
> Subject: RE: DPFE EGR Part Concern
>
>
> Mr., Chen:
> I am no longer working on this matter, James Maurer (JMAURER) is the new
> team leader. I am forwarding your note to him.
>
> Jim:
> Please respond to Mr. Chen. Thank you.
>
>
> Change Is Good. Proactivity Is Better!
> Karen E. Owens
> Supervisor
> Modular V8/V10 Engine Systems
> (off) 313.845.5770
> (fax) 313.390.1229
>
> —Original Message—
> From: schen16 [mailto:schen16@ford.com]
> Sent: Wednesday, March 27, 2002 3:25 AM
> To: Owens, Karen (K.E.)
> Cc: Jack Jao
> Subject: DPFE EGR Part Concern
>
>
> Miss Owens:
> How are you, we recently have a special case that DPFE EGR part
> malfunction and causing engine stalled w/o any warning during driving,
> this customer is proposed to sue to company if we can not provide a
> reasonable reason. Attached file please find the failure mode 2 which is
> causing engine stall immediately during drive, the failure mode 1 which
> is other defeat parts data, and we also show the new parts and dura.
> test part. Please give us a special effort to explain this concern.
> Your quick response will be requested and appreciated.

From: Kyong M. Park [k_park@msn.com]
Sent: Tuesday, August 06, 2002 7:12 PM
To: mfreel1@FORD.COM
Subject: Fwd: FW:



DP-HSG.jpg

>From: "Park, Kyong" <KPark@kavlico.com>
>To: <mfreel1@ford.com>, <k_park@msn.com>
>Subject: FW: Date: Tue, 6 Aug 2002 15:42:28 -0700
>
>
>FYI
> > -----Original Message-----
> > From: Nassar, Marcos
> > Sent: Tuesday, August 06, 2002 9:44 AM
> > To: Park, Kyong
> > Cc: Nassar, Marcos
> > Subject:
> >
> > Housing Material: VALOX 420, 30% Glass Filled
> >
> > Melting Temperature: 249 - 266 C
> >
> > Material Manufacturer: GE Plastics
> > > <<DP-HSG.jpg>>

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

From: Lovelace, Maria (M.E.)
Sent: Wednesday, December 11, 2002 1:38 PM
To: Freeland, Mark (M.)
Subject: RE: Kavlico TM dPFE sensors

Mark

thank you for the very kind note which I will pass on.

I would like to wish you a very Merry Christmas and a Happy New Year also. It was a pleasure working with you.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, December 11, 2002 1:03 PM
To: Lovelace, Maria (M.E.)
Cc: Maurer, James (J.B.); Williamson, Richard (E.)
Subject: Kavlico TM dPFE sensors

Maria,

I am in the process of phasing out of work on the Kavlico TM dPFE sensor, so I will not be needing any additional post 1/7/2002 build date field returns. However, Jim Maurer from Powertrain may still be interested in additional samples. If he is I am sure he will let you know.

I also want to thank you and your team of Field Quality Engineers for the valuable support you provided me over the past 9 months. It was very valuable to get the failed parts "fresh" off the vehicles, rather than waiting for parts to filter in through WPRC. In the case of this sensor it seems to make a difference as to whether the parts are inspected soon after failure, or after warehouse storage for some time.

Learning's from the parts you sent helped us to design a electrically more robust TM part. I am expecting first samples of the new design for testing in the next day or so.

Please pass on my thanks to the FQEs who did the work.

Hope you all have a very merry Christmas and a prosperous new year.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Lovelace, Maria (M.E.)
Sent: Wednesday, July 10, 2002 3:59 PM
To: Freeland, Mark (M.)
Subject: RE: part

Have fun!

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, July 10, 2002 3:00 PM
To: Lovelace, Maria (M.E.)
Subject: RE: part

Thanks Maria,

You won't hear from me again until August as I am taking two weeks to go overseas starting next Monday. But do keep the parts coming, they are a very valuable source of data for us.

Thanks for you team's help.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Lovelace, Maria (M.E.)
Sent: Wednesday, July 10, 2002 1:31 PM
To: Freeland, Mark (M.)
Subject: part

Mark,
I put the part in the company mail. You should have it in a few days.

Marla E. Lovelace - FQE Liaison
Enhanced Concern Identification - FCSD
500 Town Center, Suite 300 Cube 25
500 Town Center Drive
Dearborn, Michigan 48126
313-323-8561/800-521-4450

From: Lovelace, Marie (M.E.)
Sent: Wednesday, July 10, 2002 1:31 PM
To: Freeland, Mark (M.)
Subject: part

Mark,
I put the part in the company mail. You should have it in a few days.

Marie E. Lovelace - FQE Liaison

Enhanced Concern Identification - FCSD
500 Town Center, Suite 300 Cube 25
500 Town Center Drive
Dearborn, Michigan 48126
313-323-6561/800-521-4450

From: Lovelace, Maria (M.E.)
Sent: Wednesday, July 03, 2002 12:44 PM
To: Freeland, Mark (M.)
Subject: Failed DPFE

Have a failed DPFE (BD 2E20C) sitting on Maria's desk if you want to come and get it.

From: John Domka (Maria is on vac this week)

Maria E. Lovelace - FQE Liaison

Enhanced Concern Identification - FCSD

500 Town Center, Suite 300 Cube 25

500 Town Center Drive

Dearborn, Michigan 48126

313-323-6561/800-521-4450

From: Lovelace, Marie (M.E.)
Sent: Friday, June 21, 2002 7:48 AM
To: Freeland, Mark (M.)
Subject: RE: Report for SRL Analysis of FQE returns

Mark

thanks for keeping the FQEs in the loop. Everyone appreciates the update. Most times they do an assignment and never find out what happened.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, June 20, 2002 6:14 PM
To: Maurer, James (J.B.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Kyong Park (E-mail)
Cc: Lovelace, Marie (M.E.); Akins, Mary (M.); Awad, Mahmoud (M.L.)
Subject: Report for SRL Analysis of FQE returns

Attached is the SRL report for each of the three FQE Warranty Return parts we discussed at today's meeting. SRL730 is for the Focus staller, SRL731 and SRL732 are for the two post 1/7/2002 parts which were returned to Kavlico today for three temperature testing.

<< File: SRL730.xls >> << File: SRL731.xls >> << File: SRL732.xls >>

Regards

Mark Freeland

6-Sigma Black Belt
Engino Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 13, 2002 12:40 PM
To: Freeland, Mark (M.)
Subject: RE: Assignment # 02-58 - DPFE Sensor

You're welcome

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, June 13, 2002 12:38 PM
To: Lovelace, Maria (M.E.)
Subject: RE: Assignment # 02-58 - DPFE Sensor

Thank you for the info, will look forward to receiving the parts.

PS I received the two parts from Mark Hayduk in Pittsburgh this morning when I got back from Kavlico.
Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelat@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 13, 2002 11:01 AM
To: Freeland, Mark (M.)
Subject: FW: Assignment # 02-58 - DPFE Sensor

Information for you

-----Original Message-----

From: Dionisi, Anthony (A.J.)
Sent: Thursday, June 13, 2002 10:59 AM
To: Lovelace, Maria (M.E.)
Cc: Bersuder, Lee (L.C.); Dionisi, Anthony (A.J.)
Subject: Assignment # 02-58 - DPFE Sensor

Maria - FYI. Entered three CQIS reports (#s 2FMIO001, 2FMIO002, 2FMIO003) related to Assignment # 02-58. Parts will be returned directly to Mark Freeland per assignment directions. On CQIS # 2FMIO003, I entered it as a "S" (potential safety concern) since vehicle lost all power while driving. DPFE sensor (date code: 0J08C) replaced - resolved concern (this DPFE sensor qualifies to problem 2 listed on assignment form).

Total of three parts being returned.

Tony Dionisi
Ford Motor Company
Enhanced Concern Identification
Denver Field Quality Engineer

ENG2-627-G 12272

Office: 303-346-4788
Call: 303-921-2517
Fax: 303-346-4788
adlonis@ford.com

ER82-927-G 12273

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 13, 2002 11:01 AM
To: Freeland, Mark (M.)
Subject: FW: Assignment # 02-58 - DPFE Sensor

Information for you

—Original Message—

From: Dionisi, Anthony (A.J.)
Sent: Thursday, June 13, 2002 10:59 AM
To: Lovelace, Maria (M.E.)
Cc: Bersuder, Lee (L.C.); Dionisi, Anthony (A.J.)
Subject: Assignment # 02-58 - DPFE Sensor

Maria - FYI. Entered three CQIS reports (#'s 2FMIO001, 2FMIO002, 2FMIO003) related to Assignment # 02-58. Parts will be returned directly to Mark Freeland per assignment directions. On CQIS # 2FMIO003, I entered it as a "S" (potential safety concern) since vehicle lost all power while driving. DPFE sensor (date code: QJ08C) replaced - resolved concern (this DPFE sensor qualifies to problem 2 listed on assignment form).

Total of three parts being returned.

Tony Dionisi
Ford Motor Company
Enhanced Concern Identification
Denver Field Quality Engineer
Office: 303-346-4788
Cell: 303-921-2517
Fax: 303-346-4788
adionisi@ford.com

Fix: Caus. Comp: SENSOR ASY EGR PR VL --RPL Condition Code: 08

Region Code: 44 Region Name: Pittsburgh - 44

CONCERN CUST. STATES: CHECK ENGINE LIGHT IS ON ALL THE TIME.
REPAIR * TECH FOUND CODE P0401 PRESENT (INSUFFICIENT EGR FLOW).

- * TECH REPLACED THE DPFE WHICH CORRECTED THE CONCERN.
- * DPFE REMOVED HAS DATE CODE OF 2A25B.
- * DPFE SENT TO MARK FREELAND PER BCI ASSIGN. 02-58.
- * MARK HAYDUK - PITTSBURGH FQE - 724-822-4342

Mark Hayduk

Field Quality Engineer
Global Concern Definition
Ph: 724-941-8670
Cell: 724-822-4342
Fax: 724-941-5154

From: Lovelace, Maria (M.E.)
Sent: Monday, May 13, 2002 7:55 AM
To: Freeland, Mark (M.)
Subject: FW: Request for Melted DPFE's

Mark

a few comments from our FQE in Houston concerning DPFEs. Technician's comments

-----Original Message-----

From: Sorensen, Lynn (R.L.)
Sent: Friday, May 10, 2002 3:48 PM
To: Lovelace, Maria (M.E.)
Cc: Sorensen, Lynn (R.L.)
Subject: Request for Melted DPFE's

Maria, I have not seen one yet, but every technician that has had one indicated that it came from a 3.8L Mustang. The cause is simply a plugged Cat. converter that causes the exhaust to flow up through the DPFE and melts it down. No one has had one that wasn't a V-6 Mustang or that was caused by something other than a plugged converter. They have all been asked to save me one if they get one, but most haven't seen one for a couple of months..

R. L. (Lynn) Sorensen

Enhanced Concern Identification - FCSD
Field Quality Engineer...Houston, TX,
Office: 281-443-6582 Fax: 281-443-4206
Cell: 281-384-0617
lsorensen@ford.com

From: Lovelace, Maria (M.E.)
Sent: Thursday, May 02, 2002 8:40 AM
To: Freeland, Mark (M.)
Subject: CONFERENCE

Mark,
every Monday we have a conference call with our FQEs. They are in town this week for training, but will be going home tomorrow. Would it be possible for you to call in Monday, May 6 to our conference call? Say about 10:20 am? I will not be here, but my supervisor Lee Bersuder will be handling the call. Please advise if you can do this. Thanks

Maria E. Lovelace - FQE Liaison
Enhanced Concern Identification - FCSD
500 Town Center, Suite 300 Cube 25
500 Town Center Drive
Dearborn, Michigan 48126
313-323-6561/800-521-4450

From: Lovelace, Maria (M.E.)
Sent: Wednesday, May 01, 2002 7:22 AM
To: Domka, John (J.J.); Williamson, Richard (E.)
Cc: Freeland, Mark (M.)
Subject: RE: VIN Numbers

Rick

what is it that you need from the FQEs? Please go through me when you are requesting information from them.

As I know where they are and their workload. Thanks

-----Original Message-----

From: Domka, John (J.J.)
Sent: Tuesday, April 30, 2002 10:14 PM
To: Williamson, Richard (E.)
Cc: Lovelace, Maria (M.E.)
Subject: RE: VIN Numbers

No problem, but it will have to wait until late next week. I am in new model training this week and heading down to Lexington Ky Monday, for a couple of days.

-----Original Message-----

From: Williamson, Richard (E.)
Sent: Tuesday, April 30, 2002 6:44 AM
To: Domka, John (J.J.)
Subject: FW: VIN Numbers
Importance: High

John,

Here are some more:

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, April 29, 2002 6:28 PM
To: Williamson, Richard (E.)
Subject: VIN Numbers

Rick,

Here is the list of parts which I need Vin numbers for so far.

Can you're guy help? Thanks << File: RO numbers requiring VINs.xls >>

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

From: MacDonald, George (G.F.)
Sent: Wednesday, August 14, 2002 5:43 AM
To: Oboza, Doran (D.); Agarwal, Apoorva (A.); Banke, Nermine (N.B.); Coryas, Kevin (K.W.); Cvatkovski, Peter (P.); Daagan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.F.); Fouat - Smith, Susan (S.L.); Freeland, Mark (M.); Glanmore, Armand (A.A.); Gilmour, Bradley (B.A.); Ivaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); 'Matt Morin'; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bert (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Balls, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Deryle (D.R.); 'Brian Johnson'; Brockette, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Centivra, James (J.C.); Cervantes, Eduardo (E.J.); 'Chris Campbell'; Clechanowski, Mark (M.S.); Clugston, Shana (S.A.); Coats, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Paterni'; Dhallwal, Dave (B.S.); Duneska, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerko, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Graca, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Guccierdo, Steve (S.P.); Hegde, Damodar (D.M.); Holmetadter, Donald (D.G.); Hottel, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Harry (H.S.); 'J. Sowards'; 'Jahshan, John'; 'Jeff Palmer'; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardzabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lorius, Brett (B.R.); LTYRELL was deleted 20020804; 'Lubo Djuric'; Madaj Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Namath, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Poel-barnes, Donna (D.F.); Popa, Colin (C.M.); Popenas, Michael (M.J.); Pullela, Ananth (A.); Purvis, Bruce'; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Samimy, Behrman (Ban.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Vangavolu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegryn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.); Ziegler, Brad (B.T.)
Subject: RE: Powertrain Agenda for Thursday VQR

Attached is the official agenda. . .



Agenda
Tetrauk.doc

George F. MacDonald

Wayne Stamping & Assembly Plant - Powertrain Resident Engineer
Phone: 734-48-70198
Mobile: 734-730-8174
Textpager: 313-795-7988 <mailto:3137957969@alphanpage.airtouch.com>
gmacdona@ford.com

-----Original Message-----

From: Oboza, Doran (D.)

Send:
To:

Tuesday, August 13, 2002 2:31 PM

Agarwal, Apoorva (A.); Banks, Nemine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Deepan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.L.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Brady (B.A.); Iwaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Leslie (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razaee, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedona, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zuback, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszukowicz, Ken (K.); August, Dan (D.); Ball, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boelner, Darryle (D.R.); Brian Johnson; Brocletta, Ronald (R.K.); Brook, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Centivire, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Cristofolini, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhaliwal, Dave (D.S.); Duneska, Dennis (D.R.); Dysart, Simon (S.C.); Eggert, Daniel (D.C.); Flke, Barbara (B.G.); Fioranca, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazzedd, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gliner, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Guoclarck, Steve (S.P.); Hegde, Damodar (D.M.); Helmstatter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinke, Brian (B.W.); Kircaii, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olof (O.); Landzabal, Sergio (S.); Lizoite, Brian (B.W.); Longwall, Christine (C.); Lorus, Brett (B.R.); LTYRELL was deleted 20020804; Lubo Djuric; MacDonald, George (G.F.); Madel Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Mabysewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popa, Colin (C.M.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ranney, George (G.); Reichenbach, Ronald (R.W.); Roseman, Michael (M.D.); Samimy, Bahman (Ben.); Sands, Roger (R.P.); Sheffdan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spaniak, Terence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Tourao, Lyle (L.W.); Tucker, Shanise (S.M.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Dean (D.G.); Zigler, Brad (B.T.)

Subject:

Powertrain Agenda for Thursday VQR

There is a VQR in the WSAP Chart Room on Thursday 8/15/02.

The Powertrain Team is currently scheduled to present from 9:55 - 10:25 in the morning
Please attend this meeting if possible.

Agenda Item	Presenter
Introduction	G. MacDonald
Shifter Stuck In Park	G. MacDonald/GHSP
Vacuum Hose Installation	G. MacDonald/S. Holloway

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
Phone - 734-467-0604
Pager - 734-298-5439
email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen



Wayne Stamping & Assembly Operations
Thursday, August 15, 2002

VOR AGENDA

<u>Time</u>	<u>Event</u>	<u>Presentation</u>
Arrival – 9:00 am	Introductions	All/Escort Conf Room
9:00 – 9:05 am	Agenda Overview	Bruce Hettle
9:05 – 9:35 am	MCR <ul style="list-style-type: none">▪ Change control process▪ Labor/freight/packaging	M. Duffy/C. Stone/T. Patch
9:35 – 9:40 am	Walk to Quality Lab	All
9:40 – 10:00 am	External Indicator Performance <ul style="list-style-type: none">▪ Warranty, GQRS, JD Power▪ GQRS Deep Dive▪ O MIS – Warranty	All/Chart Room Aindrea Campbell Mike Williams Shawn Milne/Tennille Smith
10:00 – 10:30 am	Powertrain	George MacDonald
10:30 – 11:00 am	Electrical	Ron Wepler
11:00 – 11:30 am	Interior Trim	Tom Mayer
11:30 – 12:00 pm	Chassis	Barb Fike
12:00 – 1:00 pm	LUNCH	
1:00 – 1:30 pm	H/L/M	Stan Skiba
1:30 – 2:00 pm	Paint	Randy Miller
2:00 – 2:30 pm	Sheet Metal	Sean Anderson
2:30 – 2:35 pm	Walk to Escort Room	All
2:35 – 3:35 pm	Supplier Incoming Quality <ul style="list-style-type: none">▪ Tower▪ Webasto▪ Gedia▪ Visteon	Roger Sands
3:35 – 4:05 pm	JD Power Action Plan Review	Campbell, Williams/BH office

From: MacDonald, George (G.F.)
Sent: Tuesday, March 26, 2002 6:47 AM
To: Freeland, Mark (M.)
Subject: RE: Old Style DPFE Sensors

Yes. . . I should have clarified. We are in need of the tube-mounted design. I'm not going to be by a phone all morning. Do you have Mary's e-mail address?

George F. MacDonald

Wayne Stamping & Assembly Plant - Powertrain Resident Engineer
Phone: 734-46-70186
Mobile: 734-730-8174
Textpager: 313-795-7000 <mailto:3137957969@alphapage.airtouch.com>
gmacdona@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, March 25, 2002 4:37 PM
To: MacDonald, George (G.F.)
Subject: RE: Old Style DPFE Sensors

George,

I hope you mean the improved Tube Mount with a date code past 1/7/2002?

Please call me after 8:00 am tomorrow so we can discuss. Probably the best source is Mary Akins, the Kavlico Resident.

Regards

Regards

Mark Freeland

6-Sigma Black Belt
Ford Research Laboratory
P.O. Box 2053
MD 2829 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel: (313) 594-7645

From: MacDonald, George (G.F.)
Sent: Monday, March 25, 2002 4:18 PM
To: Fraeland, Mark (M.)
Cc: Florence, Jeremy (J.D.)
Subject: RE: Old Style DPFE Sensors

Mark,
We need to get about 50 DPFE's (old style) for repairs. What is the best way to get them? Can you help?

George F. MacDonald

Wayne Stamping & Assembly Plant - Powertrain Resident Engineer
Phone: 734-46-70186
Mobile: 734-730-8174
Textpager: 313-785-7969 <mailto:3137957969@alphapage.airtouch.com>
gmacdona@ford.com

—Original Message—

From: Florence, Jeremy (J.D.)
Sent: Monday, March 25, 2002 11:44 AM
To: MacDonald, George (G.F.)
Subject: Old Style DPFE Sensors

George -

As you know I had a Ford employee (Shakeeb Rahman) in today for evaluation of a check engine light on a 2001 Focus built in March of '01 with 10,000 miles on it. The root cause was the DPFE sensor. Can we find a way to get spare parts of the old design here so we can fix Ford employee's cars that come directly to us with this issue? I know you said you thought you had a contact that could get these parts for us. Hind sight 20/20, we should have saved some off of the line before discontinuation. Also, if you think we can get some can you give me an estimate so I can call Shakeeb back and let him know we will be able to fix his car for him and that he doesn't have to take it to a dealership.

Regards,

Jeremy Florence

<mailto:jfloren2@ford.com>
Wayne Stamping & Assembly Plant - PVT
Idle Quality VFG40 Team Leader &
Six Sigma Black Belt Candidate
Phone: 734-64-15795
Textpager: 313-851-0071
<mailto:3138510071@alphapage.airtouch.com>

From: Mack, Ed (E.T.)
Sent: Tuesday, September 10, 2002 9:27 AM
To: McCoy, James (J.D.)
Cc: O'Neill, Jim (J.D.); Freeland, Mark (M.)
Subject: RE: Pool Vehicle

Yes, with LL4 approval. Send to Dbnpool@ford.com

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Tuesday, September 10, 2002 9:26 AM
To: Mack, Ed (E.T.)
Cc: O'Neill, Jim (J.D.); Freeland, Mark (M.)
Subject: FW: Pool Vehicle

Ed, Can you provide an answer our question listed below?

Thanks. Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmcocoy1@ford.com

-----Original Message-----

From: Tokarczyk, Jim (J.J.)
Sent: Tuesday, September 10, 2002 9:02 AM
To: McCoy, James (J.D.)
Subject: RE: Pool Vehicle

Need to contact Ed Mack in Vehicle Programs (he controls the pool vehicles).

Thank You

Jim Tokarczyk

Product Development Vehicle Control
phone x76043, fax 23311
CMP 408

Vehicle Services WEB Site:

<http://www.dearborn.ford.com/ftp/PPPBV/VehicleControl/vehiclecontrol.html>

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Tuesday, September 10, 2002 9:00 AM
To: Tokarczyk, Jim (J.J.)
Cc: O'Neill, Jim (J.D.); Freeland, Mark (M.)
Subject: Pool Vehicle

Jim,

We are currently working on a warranty issue and have a vehicle which is exhibiting concerns and needs to be investigated. The vehicle we need to test is a lease vehicle that belongs to an employee, Mark Freetand, here at Ford. Mark has volunteered his vehicle for testing which will take about a week.

Would it be possible to provide a pool vehicle for Mark's use while we test his vehicle? Could you let me know if this is something we can do?

Thanks Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering

Hardware Control Interface Group

V-Engine Engineering

POEH - MD#69 - Rm. D142 - Cube DF186

Phone (313) 33-79690 / Fax (313) 39-04084

E-Mail: jmccoyle@ford.com

From: Markee, John (J.W.)
Sent: Wednesday, June 05, 2002 6:19 PM
To: Freeland, Mark (M.)
Subject: RE: FRL OCM Presentation for Friday

File received..

John

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, June 05, 2002 5:26 PM
To: Markee, John (J.W.)
Cc: Plante, Paul (P.G.); Maurer, James (J.B.); Hains, Jeffrey (J.H.); Davis, George (G.C.)
Subject: FRL OCM Presentation for Friday

John,

The attached Powerpoint is an update for the OCM 6 Sigma presentation this Friday. Please discard the previous version and replace it with this.

Thank you

<< File: 20020605 OCM 6 Sigma Slides.ppt >>

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Markee, John (J.W.)
Sent: Friday, May 17, 2002 2:45 PM
To: Freeland, Mark (M.)
Subject: RE: OCM Presentation material

Should be fine. I have the files.. Will have it all set up for you when you arrive.

John

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, May 17, 2002 1:03 PM
To: Markee, John (J.W.)
Cc: Helms, Jeffrey (J.H.)
Subject: OCM Presentation material

John, Jeff

Attached is my material for next Wednesday's OCM.

I will be in New Mexico at Analytical Solutions on Monday and will fly back on Tuesday. If you need to contact me on Monday you can use my cell phone (248) 842-1080.

<< File: 20020522 OCM 8 Sigma Slides.ppt >>

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Marrone, Rob (R.B.)
Sent: Wednesday, May 08, 2002 3:43 PM
To: Jensen, Ted (T.E.)
Cc: Freeland, Mark (M.); Danas, Adam (A.V.)
Subject: RE: Ideas

Ted, that's an intriguing possibility. A couple of questions –
The Mountaineer does not presently have the 5.4 available. did you mean 4.6?
Wouldn't this lead to repeat claims – that is, replacing the valve wouldn't solve the customer's stall issue (yet we see 2 repeat claims for all of '02MY for 4.6 truck)?

It certainly would explain how we can't duplicate the failure on a company car with precisely one key on the ring ...

We should discuss tomorrow a.m.

Sincerely,

Rob Marrone

Six Sigma Certified Black Belt
4.6L/5.4L Engine Program Engineering
POEE column J-14A, Mall drop 36
313-2488687, Fax 313-3907407, Pgr. 313-851-5713

-----Original Message-----

From: Jensen, Ted (T.E.)
Sent: Wednesday, May 08, 2002 3:35 PM
To: Marrone, Rob (R.B.)
Cc: Freeland, Mark (M.); Danas, Adam (A.V.)
Subject: Ideas

Rob,

it has been suggested that heavy key weight could be causing stalls on a wider range of vehicles than just the Escape. Seems the same key mechanism is used on most Ford vehicles. A recent report is an experience with a 2002 MY 5.4L Mountaineer. 285 grams of key weight, when bounced with the palm of the hand vertically would stall the vehicle. This is a repeatable condition. I have suggested a designed experiment with weight, drop distance, vehicle angle, and steering column set point as variables.

It may be possible for momentary loss of contact from key position to result in a number of customer concerns and could even be linked high current events that damage the dPFE sensor.

This would not help understand stalls at 8 miles with only a single vehicle key. I assume that only one key and no extra weight is involved here.

Sorry this was in my outbox. It should have been sent some time ago.

Best Regards,

Ted Jensen

Treacott E. Jensen, Ph.D.
6-Sigma Black Belt
Staff Technical Specialist
Chemical Engineering Department
Ford Research Laboratory

ER82-827-G 12287

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Receiving R. SRL Room 1317
2101 Village Road
Dearborn, MI 48124

Phone: (313) 322-4698
FAX: (313) 621-0648
E-Mail: jansen2@ford.com

From: Maurer, James (J.B.)
Sent: Tuesday, December 03, 2002 10:24 AM
To: Freeland, Mark (M.)
Subject: RE: DPFE Sensor stalls

Mark,
This is an ESM (Kavlico sensor) application.

I asked Ian Crawley to find out what kind of PCM is used in this vehicle.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, December 03, 2002 10:14 AM
To: Gates, Freeman (F.C.); Maurer, James (J.B.); McCoy, James (J.D.)
Cc: Kotwicki, Allan (A.J.); Ailes, Sheron (S.A.); O'Neal, Jim (J.D.)
Subject: FW: DPFE Sensor stalls
Importance: High

Freeman, Jim & Jim,

Please read the attached from Rick Williamson of ECt. I will ask Rick to obtain the part if he can.

A couple of questions:

- 1) Which dPFE sensor will this vehicle have, Kavlico TM, Motorola Dash Mount or Siemens (Kavlico) ECM?
- 2) What current draw does it take to shut down a 2003 MY Town Car?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Williamson, Richard (E.)
Sent: Wednesday, November 27, 2002 7:57 AM
To: Freeland, Mark (M.)
Subject: DPFE Sensor stalls
Importance: High

Hi Mark,
How have you been?

Are you still interested in the DPFE sensor?
I have a CQIS report that you might be interested in:

CSQI002 CQIS Indicator Summary 11/27/02 07:50:39
=> _____ 1 of 1
Rpt#: 2KTAC415 EDSR --or-- Q 200200030171 Rpt: 11/21/2002 Odom: 3,439 M
Rvw: File: Folder: Atchmnts: 0 Print Smy/Disp Detail(P/D):
Vehicle: 2003 TOWN CAR,EXEC ,SEDAN 1LNHM81W73Y628838 Bld: 07/29/2002
Engine: 4.8L ROM B Calb: Trans: Axle: A/C:
Dealer Id: 08910 Columbia Ford Lincoln-Mercury Ph#: (860) 228-2886
State: Connecticut City: Columbia Orig/Caller: PAUL DANIELUK
Symptom: 6 07 6 93 DRVABL,STALL/QUITS,AT CRUISE,ALL ENGINE TEMP
Addl Sym: St: CCRG/EPRC: S Rvw: A Dt 11/25/2002
Fix: Y Caus. Comp: EGR ASSEMBLY - RPL Condition Code:

Region Code: 11 Region Name: Boston -11

CONCER VEHICLE STALLS WHILE DRIVING SOMETIMES, SOMETIMES IT RESTARTS AND
SOMETIMES IT WON'T CRANK AFTER IT STALLS.
TECH/C NGS SELF TEST NO CODES, WHEN CAR WON'T CRANK YOU LOSE COMMUNICATION
WITH PCM, THEFT LIGHT DOES NOT PROVE OUT WHEN KEY IS TURNED ON,
UNPLUGGED DPFE AND CONCERN IS CORRECTED. REPLACED SHORTED DPFE ERG
VALVE ASSEMBLY AND RETEST.

I am going to try and get the part back, let me know if you would like it

Take care,

RICK WILLIAMSON
Product Concern Analyst
Enhanced Concern Identification
313-248-6348
rwill110@ford.com

From: Maurer, James (J.B.)
Sent: Friday, October 18, 2002 10:41 AM
To: Freeland, Mark (M.)
Subject: RE: Prototypes

Mark,

We are going to have a conference call with Kavlico at 12:30 today in Jim O'Neall's office. There is no meeting notice to forward, so consider this to be the notice.

I am interested in the sensor response with temperature changes and at the various pressures with the new circuit, but we probably want sensors trimmed by Kavlico for that data as well.

A breadboard or 2 might be valuable for putting on a couple of vehicles just to drive and make sure nothing happens.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

—Original Message—

From: Freeland, Mark (M.)
Sent: Friday, October 18, 2002 9:49 AM
To: Maurer, James (J.B.)
Subject: RE: Prototypes

Jim,

Is there a conference call with Kavlico which I should attend? If so, what time and where are you grouping.

Also, There may be some development verification tests which could be done with bread boarded parts, for example, the OBD II crew might want to test for power up time. We certainly do need Kavlico lay outs and proper parts, but if there is anything we can accomplish with SRL parts, then we could possibly catch a foo-pa or two before Kavlico get too far down the road. Let me know if there are any tests you might recommend, and who should conduct them. To date, not much testing has been done other than what I have personally undertaken.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
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Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com

EP82-027-G 12311

Tel: (313) 594-7645

-----Original Message-----

From: Maurer, James (J.B.)
Sent: Friday, October 18, 2002 9:37 AM
To: Freeland, Mark (M.)
Subject: RE: Prototypes

Mark,

We are expecting some feedback today from Kavlico on the changes that were proposed for the circuit. I would prefer to get their comments and discuss them before we made any prototypes. Also, I think we should have Kavlico make them with their preferred board layout, since capacitor placement will effect noise filtering, and the layout may affect the EMC results.

I hope Kavlico can get us some timing for representative parts today also.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, October 18, 2002 9:31 AM
To: Kotwicki, Allen (A.J.); Maurer, James (J.B.)
Cc: Ales, Sheran (S.A.); McCoy, James (J.D.)
Subject: Prototypes

Al,

What was the name of the individual you said could make surface mount mods to the substrates. I think it is time to try and fabricate some parts which are not breadboards.

Currently we have available 4 Rev 1.5 breadboard parts with the AVX TVS, and 1 Rev 1.5 with the Diodes Incorporated TBZ.

No one has asked for prototypes yet, except for Jim McCoy, but I know that eventually they will.

Jim,

Do you have a need for any prototypes?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com

ENG2-827-0 12312

Tel.: (313) 594-7645

EA02-027-6 12313

From: Maurer, James (J.B.)
Sent: Friday, October 18, 2002 9:37 AM
To: Freeland, Mark (M.)
Subject: RE: Prototypes

Mark,

We are expecting some feedback today from Kavlico on the changes that were proposed for the circuit. I would prefer to get their comments and discuss them before we made any prototypes. Also, I think we should have Kavlico make them with their preferred board layout, since capacitor placement will effect noise filtering, and the layout may affect the EMC results.

I hope Kavlico can get us some timing for representative parts today also.

Regards,

Jim Maurer

James B. Maurer
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Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, October 18, 2002 9:31 AM
To: Kobivick, Alan (A.J.); Maurer, James (J.B.)
Cc: Alles, Sheran (S.A.); McCoy, James (J.D.)
Subject: Prototypes

Al,

What was the name of the individual you said could make surface mount mods to the substrates. I think it is time to try and fabricate some parts which are not breadboards.

Currently we have available 4 Rev 1.5 breadboard parts with the AVX TVS, and 1 Rev 1.5 with the Diodes Incorporated TBZ.

No one has asked for prototypes yet, except for Jim McCoy, but I know that eventually they will.

Jim,

Do you have a need for any prototypes?

Regards

Mark Freeland

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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
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ER02-027-G 12314

Tel.: (313) 594-7645

From: Maurer, James (J.B.)
Sent: Thursday, October 17, 2002 11:16 AM
To: Fraeland, Mark (M.)
Subject: SRL Involvement in analysis of DPFE failures

Mark,

Some members of our senior management team are not aware of all the efforts that SRL has made in behalf of the analysis of warranty returns and test parts. I want to make a slide for a presentation tomorrow that would list the people who have been involved. The names I have are you (of course), Jon Hargas, Tim Potter, Roscoe Carter, Dairene Uy, Al Kotwicki, and Labzy Gonzales. I am sure there are more. Do you have any other names?

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

From: Maurer, James (J.B.)
Sent: Tuesday, October 01, 2002 2:42 PM
To: Frøeland, Mark (M.)
Subject: 30 production pieces

Mark,

I have the 30 pieces. Let me know when you want to pick them up, or when you will be in the office.

I'll see if there is production data available for Zetec spark plug resistance from Honeywell. I don't have any now.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5218
Email: jmaurer@Ford.com

From: Maurer, James (J.B.)
Sent: Wednesday, September 25, 2002 3:09 PM
To: Freeland, Mark (M.)
Subject: Die adhesive color

Mark,

I was in the lab with Shri Akolkar looking at some sensors to try to get an idea if the die adhesive was discolored, but we were unable to observe anything. The microscope would focus on the top of the gel and die surface but I could not get it to focus on the substrate next to the die as far as I could tell.

Do you get a clear image when you look at the die adhesive?
Do you have any ideas as to what can be done to get a better image?

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

Subject: 14D review
Location: Jim Maurer's Office
Start: Tue 9/3/2002 2:30 PM
End: Tue 9/3/2002 4:30 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Required Attendees: Maurer, James (J.B.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Freeland, Mark (M.)

Review 14D before Tech review on Thursday

From: Maurer, James (J.B.)
Sent: Tuesday, August 13, 2002 12:55 PM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

No, vehicle testing is continuing. I don't have any vehicle issues meetings scheduled. If something occurs, we can check into it at that time.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 12:34 PM
To: Maurer, James (J.B.)
Subject: FW: Ongoing Vehicle Testing Spreadsheet

Jim,

Is this true, that the vehicle testing has been discontinued?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Poma, Amy (A.)
Sent: Tuesday, August 13, 2002 11:49 AM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

I was advised that the vehicle testing has been discontinued. You might want to check with Jim Maurer if info needs to still be tracked on your Mountaineer. Let me know if you still need it.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

ER82-827-G 12322

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 11:25 AM
To: Poma, Amy (A.)
Subject: Ongoing Vehicle Testing Spreadsheet

Amy,

Could you please send me the latest copy of the vehicle test workbook, so that I may update it and send you my new information on the Mountaineer.

Thank you

Regards

Mark Freeland

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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel: (313) 594-7645

From: Maurer, James (J.B.)
Sent: Thursday, August 01, 2002 1:33 PM
To: Freeland, Mark (M.); McCoy, James (J.D.); Gates, Freeman (F.C.); Planta, Paul (P.G.); Alles, Sheran (S.A.)
Cc: Bryant, Bruce (B.D.)
Subject: RE: High Current Events experienced on Mountaineer

I do not see the value of doing this without making many more measurements on Mark's vehicle. The measurement system needs to be proven good first. Then all the inputs to the sensor need to be recorded along with internal signals within the sensor to get a better idea of what is happening. Witnessing the event and then speculating on the cause of the event without the data show in detail what is happening is of no value.

This is the sort of time and effort that we are trying to eliminate by refocusing the team.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, August 01, 2002 12:52 PM
To: McCoy, James (J.D.); Maurer, James (J.B.); Gates, Freeman (F.C.); Planta, Paul (P.G.); Alles, Sheran (S.A.)
Cc: Bryant, Bruce (B.D.)
Subject: High Current Events experienced on Mountaineer

On several occasions now I have experienced dPFE high current events on my Lease Evaluation Mountaineer.

The first was observed on Saturday 7/13/2002., and most recent was on 7/30 on my home from work. During the 7/30 drive the event repeated many times, during almost every tip in.

The magnitude of current I have seen is anything from a few extra mA through as high as 200 mA. On each occasion the current indicated on the DVM has risen progressively during the tip in and fallen immediately I ease up on the load. As the rate of rise was relatively slow (hundreds of mSec to a couple seconds) nothing was observed on the Pearson Ring signal.

Also, I did not have the Vref or Vout signals connected to the oscilloscope during these events. This was because I have found that the noise signal observed by the Pearson ring is substantially reduced when the probes are connected, especially to the Vref line.

I am hoping that both Sheran Alles and Jim McCoy can spend some time with me driving the vehicle so that they can witness the events also.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053

EA82-827-0 12324

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Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

E092-827-6 12325

From: Maurer, James (J.B.)
Sent: Thursday, August 01, 2002 1:23 PM
To: Freeland, Mark (M.)
Subject: RE: Buy Back Focus

Mark,

I had that vehicle instrumented with pressure transducers and thermocouples in addition to the normal scope set up. It is going to be running at MPG on the chassis rolls so that I can get real information on what the inputs to the sensor are and so I can see what the sensor really has to survive.

I need this vehicle to run the test it was set up to do. If a voltage transient occurs that causes an issue, it will be captured along with the other inputs.

John Jahshan has a Focus that he is driving that I would suggest could be used. However, if your personal vehicle has experienced a real issue, actually identifying what is happening would be more productive.

We need very badly to have better data on real world vehicles, and since the data on your vehicle was inconclusive, it should be clarified, or thrown out. High confidence in the measurement is needed. If you are going to say very high frequency noise is an issue, we should make sure that it affects the sensor by running a test injecting the actual noise measured and seeing if it causes the sensor to latch on the bench. If it doesn't, then it should be ignored.

From what I gather, I am to make design changes to the sensor for potential issues and no longer need to identify root cause.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3872, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, August 01, 2002 12:30 PM
To: Maurer, James (J.B.)
Cc: O'Neill, Jim (J.D.); Helms, Jeffrey (J.H.); Bryant, Bruce (B.D.)
Subject: Buy Back Focus

Jim,

I have just had a conversation with Jim O'Neill regarding my involvement on the team and what I can currently best do to further the teams efforts.

Amongst other things discussed Jim indicated that:

- a) He is traveling to Kavlico tomorrow and will be discussing future team make up, and that my continued participation is on the agenda.
- b) Ford's efforts in looking for the elusive electrical signature which may be affecting the dPFE sensor are going to be reduced, within Powertrain Operations and within EESE.

I still feel, based on the high current events on my Management Lease Vehicle First observed 7/13/2002, where the current indicated by the DVM increased to as high as 200 mA during heavy acceleration and then fell back to the normal level after I eased off on the load, that electrical noise generated by the ignition system

probably has a key role to play in the failure of the dPFE.

I asked Jim if anyone on the team has looked at the electrical noise on the Alan Ford Green Buy Back Focus, VIN # 1FAPP36381W115569, to date. Jim thought that as of this time no one had.

If any of the vehicles we have in hand are going to reveal the secret of what causes the high current events, this is the one, as it is the only vehicle we have which has had a confirmed high current event which caused the engine to stop and not restart. I made the offer to Jim O'Neall, that I would look at the electrical noise on this vehicle to see if we can get some conclusive data. Jim O'Neall had no objection to this, and suggested that I contact you and ask if the vehicle could be made available to me for this work.

Please let me know:

- a) if I may have the vehicle
- b) to what level the vehicle is instrumented
- c) when it would be available to me
- d) what are the driving restrictions, (my name is not on the list of approved weekend drivers for any of the test vehicles which Army sent out).

If the instrumentation has not been installed FRL will be happy to install it, if you can provide the equipment with the vehicle.

Thank you

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel: (313) 594-7645

Subject: Tuesday, Thursday meeting, and EESE strategy
Location: Jim Maurer's Office

Start: Mon 7/1/2002 1:00 PM
End: Mon 7/1/2002 2:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Maurer, James (J.B.); Freeland, Mark (M.); Plante, Paul (P.G.)

From: Maurer, James (J.B.)
Sent: Thursday, June 20, 2002 9:44 AM
To: Freeland, Mark (M.)
Subject: RE: It did it again 5 mins ago

Mark,
If you don't get the scope from the Focus, we should remove the scope from the Tribute or John Jahshan's car to get data from your vehicle.

Let me know if you can't get the scope from EESE.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-6219
Email: jmaurer@Ford.com

—Original Message—

From: Freeland, Mark (M.)
Sent: Wednesday, June 19, 2002 4:21 PM
To: Alles, Sheran (S.A.); Rossi, Roberto (R.A.)
Cc: Maurer, James (J.B.); Mante, Paul (P.G.); Gatas, Freeman (F.C.); McCoy, James (J.D.); Potter, Timothy (T.J.)
Subject: It did it again 5 mins ago

Guys,

We may be in luck tomorrow, as my Mountaineer did it again five minutes ago, with new wiring and a different meter.

Roberto, I totally redid the wiring for my monitor on the dPFE today, just in case the strange event on Monday and two strange events yesterday were caused by an instrumentation wiring issue.

Sheran, As discussed earlier today, we need to get together in the morning and get the good scope from the Focus into my mountaineer. Please call me as arranged on my cell phone between 8:30 and 9:15 in the morning.

Tim, Thanks for your help today in preparing the new wiring loom for the dPFE monitor in my Mountaineer, and for installing the regulators in the test box for the latched sensors. Works good.

Regards

Mark Freeland

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email: mfreela1@ford.com
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ER02-027-G 12328

From: Maurer, James (J.B.)
Sent: Wednesday, June 19, 2002 12:52 PM
To: Freeland, Mark (M.)
Subject: Duplication of Field Failures

Mark,
Yesterday, I got the impression that you did not think we had a test to duplicate the field failures. I talked to Jon Janda about what the results of Kyong's acid and latch up test were and he stated that the test did duplicate the failures that we had seen in the field. (Latched up with acid)

Do you agree?

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept, V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

From: Maurer, James (J.B.)
Sent: Thursday, June 06, 2002 12:28 PM
To: Frøeland, Mark (M.)
Subject: U204 Stalls Item

Mark,

In a previous note, you asked someone to explain the capacitor change in the EEC to take care of a U204 stall problem during the radiated immunity test (I presume). I can't find the note. Can you forward me the original note you sent or any reply you got. I would like to discuss this with Jim McCoy.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

From: Maurer, James (J.B.)
Sent: Monday, May 13, 2002 9:40 AM
To: Freeland, Mark (M.)
Subject: RE: Request for Melted DPFE's

Mark,

I went by your office today and no one was there. Were you in a conference room? What should we do about finishing selection of parts for Analytical solutions.

On 3.8L Mustang. Big problem with fouled plugs because calibration at cold start was too rich. Resulting misfires, then melted catalysts. Melted sensors are obvious visual defects, in my opinion.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

—Original Message—

From: Freeland, Mark (M.)
Sent: Monday, May 13, 2002 9:35 AM
To: Maurer, James (J.B.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Awad, Mahmoud (M.I.)
Cc: Lovelace, Maria (M.E.); Sorenson, Lynn (R.L.)
Subject: FW: Request for Melted DPFE's

Team,

We may have a new failure mode to add to the 14 D.

Is it possible that the previously failed dPFE causes a cat. melt down, which causes high back pressure, which causes exhaust flow through the dPFE's seals and it melts?

Or the alternative hypothesis,

Something else causes the cat. to melt down, which causes high exhaust back pressure, causing exhaust flow through the dPFE's seals etc..

Mahmoud,

What can you find out about cat. melt downs on 3.8L Mustang from AWS?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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email: mfreel1@ford.com
Tel: (313) 594-7645

—Original Message—

ER02-027-G 12356

From: Lovelace, Maria (M.E.)
Sent: Monday, May 13, 2002 7:55 AM
To: Friesland, Mark (M.)
Subject: FW: Request for Melted DPFE's

Mark

a few comments from our FQE in Houston concerning DPFE's. Technician's comments

-----Original Message-----

From: Sorensen, Lynn (R.L.)
Sent: Friday, May 10, 2002 3:48 PM
To: Lovelace, Maria (M.E.)
Cc: Sorensen, Lynn (R.L.)
Subject: Request for Melted DPFE's

Maria, I have not seen one yet, but every technician that has had one indicated that it came from a 3.8L Mustang. The cause is simply a plugged Cat. converter that causes the exhaust to flow up through the DPFE and melts it down. No one has had one that wasn't a V-6 Mustang or that was caused by something other than a plugged converter. They have all been asked to save me one if they get one, but most haven't seen one for a couple of months..

R. L. (Lynn) Sorensen

Enhanced Concern Identification - FCSD
Field Quality Engineer...Houston, TX,
Office: 281-443-6582 Fax: 281-443-4206
Cell: 281-384-0617
lsorensen@ford.com

From: Maurer, James (J.B.)
Sent: Friday, May 10, 2002 10:12 AM
To: Freeland, Mark (M.)
Subject: RE: INOP SBDS Systems

I suspect that this is trying to tell us that the PCM is asleep and therefore not communicating with the SBDS (service bay diagnostic system). Could also be a defective PCM or connector. Usually serial communication link is inside the vehicle and not subject to normal moisture/corrosive environment.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

—Original Message—

From: Freeland, Mark (M.)
Sent: Thursday, May 09, 2002 9:34 PM
To: Rosel, Roberto (R.A.)
Cc: Plante, Paul (P.G.); Gates, Freeman (F.C.); Maurer, James (J.B.); Awad, Mahmoud (M.I.); Perry, Brian (B.J.)
Subject: INOP SBDS Systems

Roberto,

I have seen a number of instances of "INOP SBDS System" at the same time as trouble with dPFE's.

Please check out the 3/26/2002 repairs on VIN # 1FAPP55U11A136704 for an example.

Could there be any link between an INOP SBDS and a transient voltage concern?

Regards

Mark Freeland

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email: mfreelal@ford.com
Tel.: (313) 594-7645

From: Maurer, James (J.B.)
Sent: Friday, April 26, 2002 1:53 PM
To: Freeland, Mark (M.)
Subject: RE: Lab testing dPFE sensors for Latch Up

I am sure this is an interesting topic, but I don't think I want to be there for the meeting time indicated. I'll put 12:30PM down on my calendar.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 796-5219
Email: jmaurer@Ford.com

—Original Appointment—

From: Freeland, Mark (M.)
Sent: Friday, April 26, 2002 12:46 PM
To: Plante, Paul (P.G.); Gates, Freeman (F.C.); Maurer, James (J.B.)
Subject: Lab testing dPFE sensors for Latch Up
When: Monday, April 29, 2002 12:30 PM to Tuesday, April 30, 2002 5:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: SRL 1517

Subject: Finalize Information for Analytical Solutions
Location: Room 1347, SRL

Start: Wed 4/24/2002 2:00 PM
End: Wed 4/24/2002 4:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Maurer, James (J.B.); Gates, Freeman (F.C.); Fraeland, Mark (M.); Plante, Paul (P.G.)

Agenda:

Paperwork to send to analytical solutions
Selection of parts - do the parts Mark has selected so far meet the criteria desired
Workplan for analytical solutions
Tentative trip dates
Anything else of importance
Mark - please invite Ed Sikafus

From: Maurer, James (J.B.)
Sent: Friday, April 12, 2002 8:06 AM
To: Freeland, Mark (M.)
Subject: RE: Proposed data to be gathered on all parts sent to outside labs

The attachment didn't come through. Is it the same as the file you gave me on the disk, or is it updated? I have the disk.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3872, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, April 11, 2002 5:20 PM
To: James Maurer (J.B.) (E-mail)
Subject: FW: Proposed data to be gathered on all parts sent to outside labs

Sorry Jim, sent it to the wrong Maurer

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel: (313) 394-7645

-----Original Message-----

From: Maurer, Andrea (A.M.)
Sent: Wednesday, April 10, 2002 2:27 PM
To: Freeland, Mark (M.)
Subject: RE: Proposed data to be gathered on all parts sent to outside labs

Mark,

I think this was sent to me in error.

Andrea Maurer
Safety Engineer
Ford Livonia Transmission
Phone: 734/323-4037
Fax: 734/323-5986
amaurer@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, April 10, 2002 1:46 PM
To: Maurer, Andrea (A.M.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Verner, Carol (C.J.); Hanges, Jon (.)
Cc: Potter, Timothy (T.J.)
Subject: Proposed data to be gathered on all parts sent to outside labs

Please see the attached document for my initial proposal of the minimum data which should be collected for each part sent to an outside lab before any tear down analysis is conducted.

If you have any additional suggestions then please let me know and I will add this to the document.

Thanks

<< File: Outside Lab Initial Characterization.doc >>

Regards

Mark Freeland

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email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Maurer, James (J.B.)
Sent: Wednesday, April 10, 2002 9:10 AM
To: Freeland, Mark (M.)
Subject: FW: PCM Date Code from Focus Buy-Back

Info

Regards,
Jim Maurer
James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Jahshan, John (J.H.) [<mailto:jjahshan@visteon.com>]
Sent: Wednesday, April 10, 2002 9:03 AM
To: 'Maurer, James (J.B.)'
Subject: RE: PCM Date Code from Focus Buy-Back

0H16C
0 - 2000
H - August
16 - 16th

John H. Jahshan
POEE Resident Engineer
PCM Applications
jjahshan@visteon.com
Phone & Fax: (313) 722-1638 or (313) 390-4854
Pager: (313) 795-8068
<http://www.myairmail.com/>
"WHETHER YOU BELIEVE YOU CAN DO SOMETHING OR YOU BELIEVE YOU CAN'T, YOU'RE RIGHT"

-----Original Message-----

From: Maurer, James (J.B.) [<mailto:jmaurer@ford.com>]
Sent: Tuesday, April 09, 2002 3:59 PM
To: 'jjahshan@visteon.com'
Cc: Freeland, Mark (M.)
Subject: FW: PCM Date Code from Focus Buy-Back

John,
From the information in Robert Rossi's note, can you tell us the date of manufacture of that PCM? Please send to Mark Freeland and I. Thanks.

Regards,
Jim Maurer
James B. Maurer
V-Engine 6-Sigma Team Leader

ERG2-827-8 12384

Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

> -----Original Message-----
> From: Rossi, Roberto (R.A.)
> Sent: Tuesday, April 09, 2002 3:45 PM
> To: Freeland, Mark (M.)
> Cc: Maurer, James (J.B.)
> Subject: PCM Date Code from Focus Buy-Back
>
>
> Mark,
>
> I do not know how to read the date codes from the module but here is what
> is printed on the label.
>
> Part Number: 1S4F-12A650-ADF
>
> LMGB5FCMX6TT
> OH16C
>
>
> Robert Rossi
> Electrical/Electronic Systems Campaign Prevention Specialist
> North American Car Lifestyle Vehicles
> Phone/Fax: 84-51436
>

From: Maurer, James (J.B.)
Sent: Tuesday, April 09, 2002 3:59 PM
To: 'yahshan@viatecn.com'
Cc: Freeland, Mark (M.)
Subject: FW: PCM Date Code from Focus Buy-Back

John,
From the information in Robert Rossi's note, can you tell us the date of manufacture of that PCM? Please send to Mark Freeland and I. Thanks.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3872, Fax (313) 390-4084
Text Page: (313) 795-5218
Email: jmaurer@Ford.com

---Original Message---

From: Rossi, Roberto (R.A.)
Sent: Tuesday, April 09, 2002 3:45 PM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: PCM Date Code from Focus Buy-Back

Mark,

I do not know how to read the date codes from the module but here is what is printed on the label.

Part Number: 1S4F-12A850-ADF

LMGB5FCMX8TT
0H16C

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51438

From: Maurer, James (J.B.)
Sent: Tuesday, April 02, 2002 10:28 AM
To: Chen, Smith S N (S.)
Cc: Gates, Freeman (F.C.); Freeland, Mark (M.)
Subject: FW: DPFE EGR Part Concern

Mr. Chen,

Your attached files did not come through to me, so I don't know the specifics for your vehicle.

One of the failure modes of the sensor is that it may short and draw a high current from the PCM (engine control module). When this happens, the voltage that is supplied to the microprocessor inside the PCM is not sufficient to keep the PCM operating. When the microprocessor is not running, there are no signals to the fuel injectors, ignition coils, and other components required to keep the engine running.

The circuit inside the sensor was changed to eliminate this issue. A resistor was added to limit the amount of current the sensor would draw when it shorted, and another resistor and diode were added to eliminate electrical noise issues that could potentially cause the short to occur. The new part was released on concern C11286321. Production began January 7, 2002.

I am interested in knowing the details about why a customer would sue over this issue. Does the customer want you to buy back the vehicle if it cannot be fixed? The latest level part should take care of the issue.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3872, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

---Original Message---

From: Owens, Karen (K.E.)
Sent: Tuesday, April 02, 2002 9:58 AM
To: Chen, Smith S N (S.)
Cc: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)
Subject: RE: DPFE EGR Part Concern

Mr., Chen:

I am no longer working on this matter, James Maurer (JMAURER) is the new team leader. I am forwarding your note to him.

Jim:

Please respond to Mr. Chen. Thank you.

Change is Good. Proactivity is Better!

Karen E. Owens

Supervisor

Modular V8/V10 Engine Systems

(off) 313.845.5770

(fax) 313.390.1229

-----Original Message-----

From: schen16 [mailto:schen16@ford.com]

Sent: Wednesday, March 27, 2002 3:25 AM

To: Owens, Karen (K.E.)

Cc: Jack Jao

Subject: DPFE EGR Part Concern

Miss Owens:

How are you, we recently have a special case that DPFE EGR part malfunction and causing engine stalled w/o any warning during driving, this customer is proposed to sue to company if we can not provide a reasonable reason.

Attached file please find the failure mode 2 which is causing engine stall immediately during drive, the failure mode 1 which is other defeat parts data, and we also show the new parts and dura. test part. Please give us a special effort to explain this concern.

Your quick response will be requested and appreciated.

From: Maurer, James (J.B.)
Sent: Monday, March 25, 2002 1:16 PM
To: Freeland, Mark (M.)
Subject: RE: Working relationship with Kavlico

No improvement. In the 10:30 meeting this morning, purchasing agreed to take on the issue when they met with Kavlico tomorrow. I think we will be resolving the issue without the help of Kavlico.

The purchasing director, Reld Willk, requested that we work with Patrice White-Johnson on our interface with Kavlico. She wanted to know what Ed Sikafus wanted to do at Kavlico. Could you give her a call with details?

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-6210
Email: jmaurer@Ford.com

—Original Message—

From: Freeland, Mark (M.)
Sent: Monday, March 25, 2002 12:39 PM
To: Plants, Paul (P.G.); Galas, Freeman (F.C.); Maurer, James (J.B.)
Subject: Working relationship with Kavlico

Paul, Freeman & Jim,

I understand from Dr. Kyong Park that as of this morning their directions from Kavlico's management to not work on the dPFE sensor issues which have been in place since 3/15/2002 are still in force.

Do you have any new news on this issue?

Thank you

Mark Freeland

From: Maurer, James (J.B.)
Sent: Thursday, March 21, 2002 11:32 AM
To: Freeland, Mark (M.); Gates, Freeman (F.C.); Pianta, Paul (P.G.)
Subject: RE: Your Project

I tried this. My Input:

engine speed control
engine stalling
problem has various causes
zero to low complaint rate
no accidents
low to no injuries
no warning
multiple occurrences

answer: no action

What assumptions did you make?

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3872, Fax (313) 390-4084
Text Page: (313) 785-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, March 21, 2002 10:51 AM
To: Gates, Freeman (F.C.); Pianta, Paul (P.G.); Maurer, James (J.B.)
Subject: FW: Your Project

For info

I tried it and came up with "Owner Notification".

Mike Hardy is my Master Black Belt, in case you don't know him.

Regards

Mark Freeland

-----Original Message-----

From: Hardie, Mike (M.D.)
Sent: Wednesday, March 20, 2002 4:22 PM
To: Freeland, Mark (M.)
Subject: Your Project

Are you aware of the Safety Footprint site at:

http://www-ese.ta.ford.com/~eso_srf/index.html

It takes you through a decision matrix on recall history. Try the Automatic Version with the Focus issue in mind and see what you come up with. Granted, it appears to be based on data from 1996.....I had never

EM02-021-0 12408

heard of this before today.....

Mike Hardle
Six Sigma Master Black Belt
(313) 84-57279
text pager (313) 796-8475

From: McBride, James (J.R.)
Sent: Wednesday, September 11, 2002 3:16 PM
To: Freeland, Mark (M.)
Subject: spark plug noise project

Mark,

Given that I still need to close a DMAIC project this year in order to get certified, Bruce Bryant is strongly discouraging me from taking on the spark plug noise project, since it has the potential to be a political black hole. Fortunately, I may have just identified a project at Wayne which is well scoped and could be completed in relatively short order (I'm keeping my fingers crossed). If this is the case, and I can use the Wayne project for certification, I'd like to keep your ideas in the back of my head for a possible future project. Once I'm certified, I won't be so concerned about politics. Anyway, thanks for all your help and suggestions. I'll try to keep in touch so I know where the latest clues are leading you.

Happy birthday to your daughter and enjoy your vacation to Reno.

Jim

From: McCarty, Bill (W.D.)
Sent: Monday, July 08, 2002 3:46 PM
To: Freeland, Mark (M.)
Subject: RE: FW: Kavlico dPFE and service supply

I understand. If you can participate it would be appreciated.

—Original Appointment—

From: Freeland, Mark (M.)
Sent: Monday, July 08, 2002 3:29 PM
To: McCarty, Bill (W.D.)
Subject: Accepted: FW: Kavlico dPFE and service supply
When: Wednesday, July 10, 2002 7:30 AM-8:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: Call-in number

Bill,

I will try to participate as much as possible, but I will be in the process of trying to get three young girls up and out to the YMCA at the time!

Mark

From: McCarty, Bill (W.D.)
Sent: Friday, July 06, 2002 5:08 PM
To: Freeland, Mark (M.)
Subject: RE: STRANGE CASE OF 2001 FOCUS STALL

Mark,

I am not quite sure of how to get the team on-board with this, especially since the team would not be making the call. I think what is more important is that we have all of the data necessary to support a unified team consensus (that is probably impossible.)

I believe that we need to have our internal "Come to Jesus" meeting, and the time might be next Thursday since Kavlico will not be present.

Additionally, I just set a meeting with the attorney that was present at the technical review a few months ago to discuss the potential service replacement issues if we are/are not forced to a recall. Please feel free to attend. I set it as a teleconference, but I plan on being at the attorney's office. I think that I may request that the engineering community at the attorney's office as well.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, July 05, 2002 4:46 PM
To: McCarty, Bill (W.D.)
Subject: FW: STRANGE CASE OF 2001 FOCUS STALL

Bill,

We need to recall the Focus.

Any suggestions on how to get the 14D team on board with this? They keep on claiming that stalls are not a big issue. I know otherwise, and so do our customers in the field.

Please read the attachment from Tom Rosema.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Johnson, Joe (J.H.)
Sent: Monday, June 24, 2002 11:56 AM
To: Surti, P. J. (P.J.); Gates, Freeman (F.C.); Bansak, Catherine (C.K.); Freeland, Mark (M.); Maurer, James (J.B.); Jensen, Ted (T.E.)
Cc: Giordano, Mike (M.A.); Dhaliwal, Dave (D.S.); MacDonald, George (G.F.); Mallay, Gene (E.E.); DiAngelo, Renaldo (R.); Noteboom, Jim (J.E.); Peppitone, Gil (J.)
Subject: RE: STRANGE CASE OF 2001 FOCUS STALL

P.J., yes, when a sensor (DPFE, transmission and maybe others) on the V-Ref line fails, the vehicle will stall and not re-start. I believe the field was alerted to this some time ago (see

ENG02-027-6 12412

attached note). << Message: DPFE Field Failures Short to VREF >>

Please send the sensor to me. Thanks.

Joe Johnson

Supervisor, EGR Systems, FMEI Dept
V-Engine Engineering, Powertrain Operations
POEE Bldg, Mail Drop 69
21500 Oakwood Blvd
Dearborn, Mich 48124-4091

Ph: (313) 845-8292
Fax: (313) 390-4084
e-mail: jjohnson@ford.com

—Original Message—

From: Surti, P. J. (P.J.)
Sent: Monday, June 24, 2002 11:24 AM
To: Johnson, Joe (J.H.); Gates, Freeman (F.C.); Bansek, Catherine (C.K.); Freeland, Mark (M.); Maurer, James (J.B.); Jansen, Ted (T.E.)
Cc: Giordano, Mike (M.A.); Dhaliwal, Dave (D.S.); MacDonald, George (G.F.); Malloy, Gene (E.E.); DiAngelo, Renaldo (R.); Notaboom, Jim (J.E.); Peppone, Gil (G.); Surti, P. J. (P.J.)
Subject: STRANGE CASE OF 2001 FOCUS STALL

Heiko Joe - Pl. see attached CQIS report on 2001 Focus. The high incidence of DPFE quality is known concern and we have talked about it several times in past. But this DPFE failure mode is little strange, shorting Vref to ground and its effect of stalling on the road. Also, the inoperative Odometer display was an interesting part of the failure mode. It took some time to diagnose and finding the root cause due to the lack of communication with PCM and not being able to retrieve the DTCs. If you like to receive this sensor back for further test analysis, I can ship it wherever you like me to do so. So, Pl. let me know. Thanks...

CSQI002 CQIS Indicator Summary 08/24/02 10:43:43
==> _____ 1 of 1

Rpt#: 2FXI4001 PTOFSE Rpt: 08/24/2002 Odom: 11,600 M
Rvw: File: Folder: Images: 0 Print Smy/Disp Detail(P/D):
Vehicle: 2001 FOCUS,SE ,SEDAN 1FAHP34341W110512 Bld: 09/12/2000
Engine: 2.0L ZTECH Calb: 1AK1AZ0A Trans: FN 4SPD Axle: FWD 3.904 A/C: YES
Dealer Id: 05517 SUNSET FORD Ph#: (714) 372-4520
State: California City: Westminster Orig/Caller: P. J. SURTI
Symptom: 0 03 3 89 DRVABL,CRANKS/NO STAR,START ENG TEMP ,ALL ENGINE TEMP
Addl Sym: St CCRG/EPRC: _ Rvw: Dt:
Fix: Caus. Comp: SENSOR ASY EGR PR VL - RPL Condition Code: 42
PSURTI (714) 982-3227 FAX: MIL? N ABA? Symp V? Survey? N
EO: EC: Prt St: 0
ER: CB: Intrnl? N

CONCER VEHICLE QUIT WHILE DRIVING AND WONT RESTART.
REPAIR THE VEHICLE QUIT WHILE IDLING IN PARK AND WONT RESTART. CHECKED THE BATTERY AND STARTING SYSTEM, EVERYTHING WAS O'K. HOOKED UP WDS. BUT THERE WAS NO COMMUNICATION WITH PCM AND COULDN'T RUN EEC SELF TEST. ALSO, THE TECH. NOTICED THAT THE ODOMETER DISPLAY ON THE INSTRUMENT CLUSTER WAS INOPERATIVE. RAN PINPOINT TEST FOR EEC SYSTEM. FOUND DPFE SENSOR VREF CKT. SHORTED TO GROUND. REPLACED THE DPFE SENSOR. THE VEHICLE STARTED AFTER THE REPAIR. THE ODOMETER DISPLAY ALSO STARTED TO WORK FINE AFTER THE REPAIR.

P. J. Surti
Powertrain FQE

T. No. (714) 962-8227
Fax No. (714) 962-4448

962-827-D 12414

From: McCoy, James (J.D.)
Sent: Monday, October 21, 2002 8:39 AM
To: Freeland, Mark (M.)
Subject: RE: Prototypes

The one I have should be sufficient. I send the data to you upon completion of tests.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DP186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

—Original Message—

From: Freeland, Mark (M.)
Sent: Friday, October 18, 2002 9:31 AM
To: Kotwick, Allan (A.J.); Maurer, James (J.B.)
Cc: Alias, Sheran (S.A.); McCoy, James (J.D.)
Subject: Prototypes

Al,

What was the name of the individual you said could make surface mount mods to the substrates. I think it is time to try and fabricate some parts which are not breadboards.

Currently we have available 4 Rev 1.5 breadboard parts with the AVX TVS, and 1 Rev 1.5 with the Diodes Incorporated TBZ.

No one has asked for prototypes yet, except for Jim McCoy, but I know that eventually they will.

Jim,

Do you have a need for any prototypes?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

From: McCoy, James (J.D.)
Sent: Thursday, October 17, 2002 11:27 AM
To: Freeland, Mark (M.)
Subject: DPFE date code

Mark, Sorry for the delay. Date code of '01 Tribute DPFE is 1H27B (August 27, 2001?)

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering

Hardware Control Interface Group

V-Engine Engineering

POEE - MD#69 - Rm. D142 - Cube DF186

Phone (313) 33-79690 / Fax (313) 39-04084

E-Mail: jmccoy1@ford.com

From: McCoy, James (J.D.)
Sent: Tuesday, October 08, 2002 1:55 PM
To: Freeland, Mark (M.); Alles, Sheran (S.A.)
Subject: FW: Access to PDC00024 MPG Data

I'm running into problems getting data.....My buddy Bob is trying hard to help us out.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

-----Original Message-----

From: Diez, Timothy (T.P.)
Sent: Tuesday, October 08, 2002 10:32 AM
To: Kern, Bob (R.S.); McCoy, James (J.D.)
Subject: RE: Access to PDC00024 MPG Data

Jim,

The 2001 Focus was engineered in Europe. The 2001 Escape was engineered by Mazda in Japan. I have data for neither vehicle.

Sincerely,

Timothy Diez
Cross Vehicle EMC Technology Applications
313-32-39927, Fax: 313-322-1892
e-mail: tdiez@ford.com

-----Original Message-----

From: Kern, Bob (R.S.)
Sent: Tuesday, October 08, 2002 9:55 AM
To: McCoy, James (J.D.)
Cc: Diez, Timothy (T.P.); Collins, Bruce (B.R.); Boguslawski, Larry (L.J.)
Subject: RE: Access to PDC00024 MPG Data

Jim,

There are no 2001 vehicles in the pdc00024/proj/mpgrpt/ directory.
We don't keep reports for more than 1 yr here at EMC.

For the specific 2001 vehicle/engine family data you are looking for check with:

Focus & Escape-----Tim Diez x-39927
Explorer-----Bruce Collins x-24552
F-Series-----Larry Boguslawski x-63296.

Tim/Bruce/Larry - If you don't have the data, and you can tell me what vehicle #(s) that we tested with the engine family Jim is looking for, maybe I can cross-reference the TestNet order number (Mxxxx) to find the raw J551 data on the hard drive at the RFI site computer. Thanks for your assistance.

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Tuesday, October 08, 2002 9:12 AM
To: Kern, Bob (R.S.)
Cc: McCoy, James (J.D.)
Subject: FW: Access to PDC00024 MPG Data

Bob, sorry to bug you again. Would it be possible to get J551 plots of the following vehicles? I struck out with EESE. Let me know. Thanks. Jim.

2001 2.0L Zetec Focus
2001 3.0L DOHC Escape
2001 4.0L Explorer
2001 4.2L F-Series

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DP186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jrmccoy1@ford.com

-----Original Message-----

From: Frazier, Keith (R.K.)
Sent: Monday, October 07, 2002 10:18 AM
To: McCoy, James (J.D.)
Subject: RE: Access to PDC00024 MPG Data

I will not be able to help you on this one. I would spend more time trying to figure out what to do than it would take to drive to MPG and physically review the data. I suggest you ask Bob to forward the relevant data to you via normal email.

Regards,

R. Keith Frazier

Staff Technical Specialist (EMC)
Cross Vehicle EMC Technology & Applications
Electrical Electronic Systems Engineering, RVT
Phone: 313-322-3150
email: kfrazier1@ford.com

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Monday, October 07, 2002 8:41 AM
To: Frazier, Keith (R.K.)
Subject: FW: Access to PDC00024 MPG Data

Keith, I see Tom is out until the 11th. Any chance you can help me out gaining access? I need to complete all my work by Friday.

Regards,

EE02-827-G 12481

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmc coy1@ford.com

—Original Message—

From: McCoy, James (J.D.)
Sent: Monday, October 07, 2002 8:39 AM
To: Hermann, Thomas (T.J.)
Cc: Ailes, Sheran (S.A.); Freeland, Mark (M.); Maurer, James (J.B.); O'Neal, Jim (J.D.)
Subject: Access to PDC00024 MPG Data

Hi Tom,

I am investigating an issue across multiple vehicle lines and need to compare BBRE plots for the 2001 MY. I spoke to Bob Kern about reviewing the J551 traces and he suggested it would be easier to view them on line and print out what I needed. I agree it would save a lot of time. Would it be possible to get access to the PDC00024 server and the MPGRPT directory?

Thanks Tom.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmc coy1@ford.com

From: McCoy, James (J.D.)
Sent: Monday, October 07, 2002 8:39 AM
To: Hermann, Thomas (T.J.)
Cc: Alles, Sheran (S.A.); Freeland, Mark (M.); Maurer, James (J.B.); O'Neill, Jim (J.D.)
Subject: Access to PDC00024 MPG Data

Hi Tom,

I am investigating an issue across multiple vehicle lines and need to compare BBRE plots for the 2001 MY. I spoke to Bob Kern about reviewing the J551 traces and he suggested it would be easier to view them on line and print out what I needed. I agree it would save a lot of time. Would it be possible to get access to the PDC00024 server and the MPGRPT directory?

Thanks Tom.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

From: McCoy, James (J.D.)
Sent: Tuesday, September 24, 2002 12:23 PM
To: Freeland, Mark (M.)
Subject: FW: MPG Focus

You should have the data soon.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

—Original Message—

From: Duncan, Jack (J.L.)
Sent: Tuesday, September 24, 2002 11:04 AM
To: McCoy, James (J.D.)
Subject: RE: MPG Focus

Jim, no problem!

Jack Duncan		jduncan1@ford.com
MI Proving Ground		
74240 Fisher Rd		(586) 75-28563 (w)
Romeo, MI 48065		(586) 75-28683 (E)

—Original Message—

From: McCoy, James (J.D.)
Sent: Tuesday, September 24, 2002 9:41 AM
To: Duncan, Jack (J.L.)
Cc: Maurer, James (J.B.); Freeland, Mark (M.)
Subject: MPG Focus

Jack, Can you have the tech pull the plugs from the Focus, after an overnight soak, and measure and record the static resistance of each plug. Put the plugs back in the same cylinders when complete. Send the results to Mark Freeland. Thanks. Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

From: McCoy, James (J.D.)
Sent: Tuesday, September 24, 2002 9:41 AM
To: Duncan, Jack (J.L.)
Cc: Maurer, James (J.B.); Freeland, Mark (M.)
Subject: MPG Focus

Jack, Can you have the tech pull the plugs from the Focus, after an overnight soak, and measure and record the static resistance of each plug. Put the plugs back in the same cylinders when complete. Send the results to Mark Freeland. Thanks. Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

From: McCoy, James (J.D.)
Sent: Tuesday, September 10, 2002 9:26 AM
To: Mack, Ed (E.T.)
Cc: O'Neall, Jim (J.D.); Freeland, Mark (M.)
Subject: FW: Pool Vehicle

Ed, Can you provide an answer our question listed below?

Thanks. Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

—Original Message—

From: Tokarczyk, Jim (J.J.)
Sent: Tuesday, September 10, 2002 9:02 AM
To: McCoy, James (J.D.)
Subject: RE: Pool Vehicle

Need to contact Ed Mack in Vehicle Programs (he controls the pool vehicles).

Thank You

Jim Tokarczyk

Product Development Vehicle Control
phone x76943, fax 23311
CMP 408

Vehicle Services WEB Sites

<http://www.dearborn.ford.com/tppb/PPPBV/VehicleControl/vehiclecontrol.html>

—Original Message—

From: McCoy, James (J.D.)
Sent: Tuesday, September 10, 2002 9:00 AM
To: Tokarczyk, Jim (J.J.)
Cc: O'Neall, Jim (J.D.); Freeland, Mark (M.)
Subject: Pool Vehicle

Jim,

We are currently working on a warranty issue and have a vehicle which is exhibiting concerns and needs to be investigated. The vehicle we need to test is a lease vehicle that belongs to an employee, Mark Freeland, here at Ford. Mark has volunteered his vehicle for testing which will take about a week.

Would it be possible to provide a pool vehicle for Mark's use while we test his vehicle? Could you let me know if this is something we can do?

Thanks Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering

Hardware Control Interface Group

V-Engine Engineering

POEE - MD#69 - Rm. D142 - Cube DF186

Phone (313) 33-79690 / Fax (313) 39-04084

E-Mail: jmccoy1@ford.com

From: McCoy, James (J.D.)
Sent: Tuesday, September 10, 2002 9:00 AM
To: Tokarczyk, Jim (J.J.)
Cc: O'Neal, Jim (J.D.); Freeland, Mark (M.)
Subject: Pool Vehicle

Jim,

We are currently working on a warranty issue and have a vehicle which is exhibiting concerns which need to be investigated. This vehicle we need to test is a lease vehicle that belongs to an employee, Mark Freeland, here at Ford. Mark has volunteered his vehicle for testing which will take about a week.

Would it be possible to provide a pool vehicle for Mark's use while we test his vehicle? Could you let me know if this is something we can do?

Thanks Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoy1@ford.com

From: McCoy, James (J.D.)
Sent: Thursday, September 05, 2002 12:08 PM
To: Freeland, Mark (M.)
Subject: RE: Spark plug resistance checks

Mark, Sorry but Dennis has the vehicle this evening.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POBE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmcocoy1@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, September 05, 2002 11:19 AM
To: McCoy, James (J.D.)
Subject: FW: Spark plug resistance checks

Jim, can you let me drive the Tribute tonight?

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mrfreel1@ford.com
Tel: (313) 594-7645

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, September 05, 2002 11:18 AM
To: Ewell, Fred (F.)
Subject: RE: Spark plug resistance checks

Fred,

I would like to leave it tonight, so that the plugs soak overnight before being measured.

Jim, can you let me drive the Tribute tonight?

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Elwell, Fred (F.)
Sent: Wednesday, September 04, 2002 4:03 PM
To: Freeland, Mark (M.)
Cc: McCoy, James (J.D.); Power, James (J.H.)
Subject: RE: Spark plug resistance checks

Mark,
We will be visiting Essex Engine plant tomorrow morning. If you can leave the vehicle here on Friday, I should be able to measure the plugs sometime during the day.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, September 03, 2002 12:38 PM
To: Elwell, Fred (F.)
Cc: McCoy, James (J.D.)
Subject: FW: Spark plug resistance checks

Fred,

When would be a good time for you to check out the plugs on the Mountaineer? If you would like I could come over to your garage tomorrow morning or afternoon. If it will only take an hour I will stay with you, or if a lot longer then I can leave the vehicle with you and borrow wheels from Jim McCoy.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Elwell, Fred (F.)
Sent: Thursday, August 29, 2002 2:15 PM
To: Freeland, Mark (M.)
Cc: Power, James (J.H.)
Subject: Spark plug resistance checks

I was unable to pry Jim McCoy away from the vehicle long enough to get the plugs removed and checked for resistance. Please make arrangements with Jim Power and/or me next week after the labor day holiday. Have a good weekend.

From: McCoy, James (J.D.)
Sent: Tuesday, August 27, 2002 10:00 AM
To: Alee, Sheran (S.A.); Frelund, Mark (M.)
Subject: Website for all vehicle design transmittals

<http://www.pcse.pose.ford.com/pea/index.htm>

This is the website for all PCM design transmittals.....

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering

Hardware Control Interface Group

V-Engine Engineering

POEE - MD#69 - Rm. D142 - Cube DF186

Phone (313) 33-79690 / Fax (313) 39-04084

E-Mail: jmccoy1@ford.com

From: Mike Sparhawk [msparhawk@ctparts.com]
Sent: Friday, November 22, 2002 2:12 PM
To: Freeland, Mark (M.)
Subject: Re: Central Technologies kits 12 & 14

Mark,

Thank you for your detailed response and for evaluating our inductors. Please let me know if I can assist you in the future.

Happy Holidays!

Mike

— Original Message —

From: Freeland, Mark (M.) <mailto:mfreela1@ford.com>
To: 'Mike Sparhawk' <mailto:msparhawk@ctparts.com>
Sent: Tuesday, November 19, 2002 9:00 AM
Subject: RE: Central Technologies kits 12 & 14

Michael,

After doing our experimental work and comparing the performance of the Device we are working on in noisy electrical environments, we elected to use a RC PI filter rather than an inductor to solve our problem. I am sorry, but I can not share any other details due to the nature of the work.

I will keep the remaining sample parts which you sent for future reference. You never know, they may be the right way to go with the next problem!

Thank you for the service you provided, the fast response & the free engineering kits.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel: (313) 594-7645

—Original Message—

From: Mike Sparhawk [mailto:msparhawk@ctparts.com]
Sent: Tuesday, November 12, 2002 6:04 PM
To: Freeland
Subject: Central Technologies kits 12 & 14

Mark,

EP82-821-G 12527

I am following up with you in regards to your recent request for our inductor kits # 12 (smd molded) & 14 (high freq chip). I want to know if you require any samples of any specific values or additional design material?

Thanks for evaluating Central Technologies inductive components.

Cordially,

Michael Sparhawk
Regional Business Development Manager
Central Technologies
800-684-5322
888-812-0281 Direct
949-735-8217 Cellular
m.sparhawk@ctparts.com <<mailto:m.sparhawk@ctparts.com>>

"Check Out Our New Products at www.GTPARTS.com <<http://www.GTPARTS.com>>!"

From: Mike Sparhawk [msparhawk@ctparts.com]
Sent: Tuesday, November 12, 2002 6:04 PM
To: Freeland
Subject: Central Technologies kits 12 & 14

Mark,

I am following up with you in regards to your recent request for our inductor kits # 12 (amd molded) & 14 (high freq chip). I want to know if you require any samples of any specific values or additional design material?

Thanks for evaluating Central Technologies inductive components.

Cordially,

Michael Sparhawk
Regional Business Development Manager
Central Technologies
800-884-5322
888-812-0281 Direct
949-735-8217 Cellular
msparhawk@ctparts.com <<mailto:msparhawk@ctparts.com>>

Check Out Our New Products at www.CTPARTS.com <<http://www.CTPARTS.com>> !

From: Miller, Pamela (P.M.)
Sent: Tuesday, September 03, 2002 8:58 AM
To: Friesland, Mark (M.); Samus, Marsha (M.A.)
Subject: FW: Important Message on 6-Sigma Sustainment

Importance: High

Mark/Marsha,

I received this e-mail regarding the recent 6-sigma project sustainment notices that I sent out. I assume this means that your projects are not affected at this point. Agree???

Pamela Miller

Global Product Development Finance
(313)32-30871 | Fax (313)24-86680
PDC - Cube 2J-G07 | MD #1141

—Original Message—

From: Sigma, Str (S.)
Sent: Friday, August 30, 2002 4:30 PM
To: Sigma, Str (S.)
Subject: Important Message on 6-Sigma Sustainment
Importance: High

Yesterday, you received an e-mail from 6-Sigma about projects being closed for 180 days with a message to take actions to determine if the project is sustained. This e-mail was inadvertently sent to selected approvers of projects closed since 6-Sigma was initiated. It was intended only for projects closed during 2002 that have been in the closed-status at least 180 days. As a result, please **DISREGARD ALL OF THE SUSTAINMENT NOTICES YOU RECEIVED!** The status of your projects will not be affected.

Sustainment remains an essential element of our project management process. You should have received a communication earlier today explaining sustainment in more detail.

Thank you.

From: Miller, Pamela (P.M.)
Sent: Thursday, August 29, 2002 7:68 AM
To: Freeland, Mark (M.)
Subject: FW: 6-Sigma Project 5120 -Ready to Evaluate for Sustainment

Mark,

Do you have any documentation to support the financial savings projected for this project??? I need your concurrence in PTS that the anticipated savings have been achieved and sustained so that we can submit this project for "OK to End" status. Thanks!!!

Pamela Miller
Global Product Development Finance
(313)32-30871 / Fax: (313)24-86680
PDC - Cube 2J-G07 / MD #1141

-----Original Message-----

From: 6sigma@ford.com [mailto:6sigma@ford.com]
Sent: Thursday, August 29, 2002 3:10 AM
To: mfreelal@ford.com; mhardie@ford.com; pmiller@ford.com
Subject: 6-Sigma Project 5120 -Ready to Evaluate for Sustainment

Important message on 6-Sigma Project 5120!

Project 5120 has been closed for 180 days. Please take the necessary actions to determine if this project is sustained. Before the Black Belt, Mark Freeland can request the approval for OK to End, the Financial Analyst, Pamela Miller will need to check if the project financials reflect the actuals and make any necessary adjustments. The Financial Analyst is then required to click the SEND EMAIL on the financial screen to alert the Black Belt the project is ready to be submitted for OK to End.

IMPORTANT! The request for OK to End needs to be submitted within 60 days of when this email was sent otherwise the project status will automatically change to End-Unsustained.

From: Mozurkewich, George (G.)
Sent: Tuesday, August 20, 2002 8:37 AM
To: Freeland, Mark (M.)
Cc: Potter, Timothy (T.J.)
Subject: Focus electrical problems

Regarding electrical problems on the Focus: "The problems customers had before aren't there anymore," said Cvetkovski. Surprise! See: http://www.fcw.ford.com/art_display.cfm?article_id=12135.

George Mozurkewich
Ford Motor Company Research Lab
Physical and Environmental Sciences Dept.
(313) 845-5038

From: Mozurkewich, George (G.)
Sent: Tuesday, May 28, 2002 11:29 AM
To: Freeland, Mark (M.)
Subject: RE: Ellen's Focus

Mark,

Any day this week would probably work--assuming you are still interested.
-George

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, May 28, 2002 11:15 AM
To: Mozurkewich, George (G.)
Subject: RE: Ellen's Focus

George,

Sorry, I was out sick. Let's regroup and see when would be good for you again.

Thanks

Regards

Mark Freeland

> 6-Sigma Black Belt
> Engine Research Department
> Ford Research Laboratory
> P.O. Box 2053
> MD 2629 - SRL - Room 1517
> Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Mozurkewich, George (G.)
Sent: Wednesday, May 22, 2002 1:28 PM
To: Freeland, Mark (M.)
Subject: Ellen's Focus

Mark,

Would tomorrow (Thurs) be satisfactory for me to bring in Ellen's Focus?
-George

George Mozurkewich
Ford Motor Company Research Lab
(313) 845-5038

From: Mozurkewich, George (G.)
Sent: Wednesday, May 22, 2002 1:28 PM
To: Freeland, Mark (M.)
Subject: Ellen's Focus

Mark,

Would tomorrow (Thurs) be satisfactory for me to bring in Ellen's Focus?
-George

George Mozurkewich
Ford Motor Company Research Lab
(313) 845-5038

From: Muter, Doreen (D.J.)
Sent: Thursday, March 21, 2002 9:30 AM
To: Maurer, James (J.B.); Plante, Paul (P.G.); Verner, Carol (C.J.); Freeland, Mark (M.)
Subject: 14D help

This website may assist you in updating the 14D for dPFE.

<http://www.mso.ford.com/fcsd/vsp/recall/14dquestions.htm>

Doreen J. Muter

Recall & Service Programs—FCSD

Diagnostic Service Center II, Cube 793

Phone #:313-248-9391

dmuter@ford.com

From: Muter, Doreen (D.J.)
Sent: Wednesday, March 20, 2002 8:05 AM
To: Verner, Carol (C.J.); Merdler, Julie (J.A.)
Cc: Muter, Doreen (D.J.); Maurer, James (J.B.); Freland, Mark (M.); Akins, Mary (M.); Plante, Paul (P.G.); Esch, Becky (B.)
Subject: RE: 14D Vehicles Affected Update

Julie, if you can, would you please pull 2002 volumes with the information for the vehicles listed below. I have not seen an update 14D since 12/3/01, so this is all we have to work with. This is for the dPFE issue.

Carol, as we discussed yesterday, in order to pull accurate volumes for this program we need the 14D updated with all of the vehicle lines, engines, model year, assy. plants and production date ranges affected by the TM dPFE. If Julie can pull the volumes they will be inaccurate until the listed information is provided by engineering, thank you.

NOTE: It is imperative that we receive a copy of the 14D as it is updated, please forward the latest version to Becky Esch.

Doreen J. Muter
Recall & Service Programs—FCSD
Diagnostic Service Center II, Cube 793
Phone #: 313-248-9391
dmuter@ford.com

—Original Message—

From: Verner, Carol (C.J.)
Sent: Tuesday, March 19, 2002 3:53 PM
To: Muter, Doreen (D.J.)
Subject: 14D Vehicles Affected Update

Doreen,

Per our conversation here is the information I am requesting to update the 14D Vehicles affected list for the John Kos review on Friday:

1) Model Year: 2002, complete volume for this year up to right now (As you recommended I will note that this is volume from Job 1 to now)

2) Vehicles/Engine Code:

CARS:

- * Cougar/L
- * Taurus/Sable/U (Vulcan Engine)
- * Taurus/Sable/S (Duratec Engine)
- * Mustang/4
- * Crown Vic/W
- * Grand Marquis/W
- * Town Car/W
- * Focus/3

Trucks:

- * Escape/B
- * Tribute/B
- * Escape/1
- * Tribute/1

5282-027-0 12988

- *Windstar/4
- *Explorer&Mountaineer/E
- *Explorer Sport/E
- *Explorer Sport Trac/E
- *Explorer Postal Stripped Chassis/K
- *Ranger/E
- *Econoline/2
- *F150 Series/2
- *F150 Series/W
- *F150 Series/6
- *Explorer&Mountaineer/W
- *Expedition/W

Thanks

Carol Any questions, 313-390-7180

After the tech review on 3/25/02, I would like to meet with you to discuss your proposal of a more detailed approach for gathering this information. I will contact you to set up a meeting.

From: Myers, Dan (D.P.)
Sent: Wednesday, May 08, 2002 8:13 PM
To: Friesland, Mark (M.)
Subject: RO# 126443

Mark,
The VIN for the requested RO is: 1FAFP383X1W140177
It is a 2001 Focus 2.0L Zetec DOHC.

I am sorry if it was copied wrong on the tag.

Thanks,

Dan Myers

Field Quality Engineer - Iowa
Enhanced Concern Identification

dmyers4@ford.com

Cell 563-505-9002
Office 563-289-9991
Fax 563-289-1364

From: Naushad Hossain [nhossain@neosine.com]
Sent: Thursday, April 18, 2002 2:13 AM
To: mfreale1@ford.com
Subject: Hi

Hi Mark:

Hope you are having fun with Kavlico project. So, when are you coming to sunny California? I miss working with you. I will appreciate if you have time for me for lunch or dinner while you are in California. Please let me know.

Best regards,
Naushad

Karbousky Sr., Robert (R.J.)

From: Nick Scheele [exchmail@ford.com]
Sent: Wednesday, August 14, 2002 8:33 AM
To: All Ford Employees
Subject: Ford-Supplier Relationship Values



We conduct our daily business through thousands of cross-functional contacts between Ford and supplier employees. These daily interfaces form the fabric of our business and are fundamental to our joint ability to design and build great products.

Three years ago, the Company endorsed a set of core values that should underlie Ford's business relationships with its suppliers.

Act like a partner to be a partner
Trust and be trustworthy
Communicate with consistency
Be fact based
Think value not just price
... to be the Customer of Choice

Across the Company we have many touch points with suppliers (PD, Purchasing, Manufacturing, etc.) and we recognized that our track record in observing these values was uneven. Nevertheless, we agreed cross-functionally that conducting business in a manner consistent with these values is essential to Ford's long-term success.

Our suppliers can choose the customers with whom they do business. If we are not our suppliers' customer of choice, they will dedicate their best people, invest their best resources, and offer the newest technology and innovation to our competitors -- putting Ford at a competitive disadvantage.

Make no mistake, the industry is highly competitive and - more than ever - we need to be resolute in our drive to address the tough business issues that we face every day. In these times, it is more important than ever that we be unwavering in adhering to a values-driven mindset in our approach to daily supplier interfaces.

Nick Scheele

6/5/2003

ENG2-827-0 12573

Nick School.

From: North American Business Expense
Sent: Thursday, May 09, 2002 3:36 PM
To: All LL6 Ford Employees
Subject: Re-delegated Approval Authority Levels

Per Don Leclair's letter of April 12, 2002, Leadership Level 6a (LL6) will no longer be allowed to approve Travel Expense Reports (TER). Beginning June 1, 2002, all TERs must be approved by a LL5 or higher Manager. Other changes in approval authority levels for travel are;

Trip Authorization

Domestic Travel (Within North America)

Commercial LL2 or highest-level employee at the location
Company Aircraft - Scheduled Flights LL5
Company Aircraft - Non-Scheduled Group VP

Outside North America Vice President

Spousal Travel Vice President
Group Travel Vice President

All reservations must be made through the Company designated travel agency. Travel outside North America requires written pre-approval by a Corporate Vice-President. Travelers may obtain the pre-approval form at www.travel.ford.com <<http://www.travel.ford.com>> (click on Policy ICON). E-mail completed forms to Vice President for approval. Travelers are to forward approved forms via e-mail to extravel@ford.com <<mailto:extravel@ford.com>> or fax to 313-323-4388. A copy of written authorization form must be attached to employee's TER/Receipt Transmittal. Travel expenses incurred without an authorized pre-trip approval form may not be reimbursed and may become the responsibility of the traveler.

For further details refer to Don Leclair's letter that has been sent to P&SC Members and Controllers.

From: Noteboom, Jim (J.E.)
Sent: Friday, May 10, 2002 2:49 PM
To: Freeland, Mark (M.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

It was brought in the first time for the stall on 5-8 when I inspected it; remember this one belongs to the Service Manager's wife. There were no DTCs in the system when I inspected it; however, the stall occurred approx 700 miles before.

I called to get more info on the TP replacement and to have them check C-90.

I will be in Dearborn next week but will follow-up on this.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, May 09, 2002 2:24 PM
To: Noteboom, Jim (J.E.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Flantz, Paul (P.G.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

Jim,

Thanks, the revised VIN number worked.

I see that this vehicle was in on 3/22/2002 with problems on the TPS Circuit. The dealer replaced the TPS on that date.

Can you check if the C90 connector on this vehicle is fully seated? The C90 is the connector between the engine and the Engine compartment loom which goes to the injectors, the TPS and the Fuel Rail Pressure Sensor.

There is no information in AWS on the stall issue at this time. Were there any codes set in the PCM? What date was the dealer visit for the stall? Is the vehicle still at the dealership?

Thanks

Regards

Mark Freeland

6-Sigma Black Bolt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Noteboom, Jim (J.E.)
Sent: Thursday, May 09, 2002 4:03 PM
To: Freeland, Mark (M.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

I left out a 2; try 1FMYU04142KC19492.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, May 09, 2002 1:52 PM
To: Noteboom, Jim (J.E.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

Jim,

The VIN number you provided is incomplete as it only has 16 characters. I want to look up the vehicle history in AWS, so can you get the correct VIN number to me.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

---Original Message---

From: Noteboom, Jim (J.E.)
Sent: Thursday, May 09, 2002 3:46 PM
To: Sanders, Muriel (M.S.); Akcorian, Don (D.J.); Badgley, Joel (J.K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); 'Cary Powell'; Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darral (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); 'Dan Rothweller'; De Pena, Juan (J.E.); Diez, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); 'John McDonald'; Jones, Andy; Jordan, Donald (D.E.); Kana, Shing (S.); King, Robert (R.F.); Klostermann, Eric (E.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Limlaco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Marck, Edmond (E.C.); Melissa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); 'Morgan, Tom'; Morishima, Shigeki (S.); 'Navsed Khan'; Nemstolohi, Sonya (S.); 'Nikolai, Bernie'; Orman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Aiden (A.P.); Shah, Kiran (K.C.); Shirahshi, Masaru (M.); Stiggenbauer, Jeffrey (J.R.); Suarez, Rhee (R.); Sullivan, Jamie (J.P.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Vecchio, Anne Marie (A.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (L.H.W.); Williamson, David (D.E.); Young, Lem (.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

Inspection results of '02 Escape VIN: 1FMYU0414KC19492

LOCATION: John Elway West, Denver
OWNER: Mike Cochran (JEW Service Mgr.)
MILEAGE: 3342
BUILD DATE: 1-29-02

COMPLAINT: Stalled while driving approx. 50 mph. Noticed dash lights came on and steering became stiff; coasted to side of road, went to crank (did not turn key off) and the engine restarted. Occured at around 2500 miles and has not happened since.

DIAGNOSTICS: Went through the latest TSB/ISM draft; no concerns were found except for the following:

- There was battery acid in the batt. tray that had seeped down onto grounds G-104 and 105; some corrosion was evident.
- The customer's key chain contained several oz. of additional weight.

Jim Noteboom
Powertrain Field Quality Specialist/Denver
Phone: 303.674.4015 FAX: 303.674.5730

From: Noteboom, Jim (J.E.)
Sent: Thursday, May 09, 2002 4:03 PM
To: Freeland, Mark (M.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

I left out a 2; try 1FMYU04142KC19492.

—Original Message—

From: Freeland, Mark (M.)
Sent: Thursday, May 09, 2002 1:52 PM
To: Noteboom, Jim (J.E.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

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Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfree1a1@ford.com
Tel.: (313) 594-7645

—Original Message—

From: Noteboom, Jim (J.E.)
Sent: Thursday, May 09, 2002 3:46 PM
To: Senders, Muriel (M.S.); Aittonian, Don (D.J.); Badgley, Joel (J.K.); Bauer, Scott (S.C.); Bhogwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); 'Cary Powell'; Chick, John (J.); Chin, Ming-Niu (M.N.); Chin, Daniel (D.); Corbett, Sandra (S.M.); Daibo, Bob (R.J.); 'Dan Rothweiler'; De Pena, Juan (J.E.); Diaz, Timothy (T.P.); Faacetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hoffman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); 'John McDonald'; Jones, Andy; Jordan, Donald (D.E.); Kanai, Shinji (S.); King, Robert (R.F.); Kinstermann, Eric (E.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Lintjaco, Steven (S.); Lunde, Peter (P.A.); Liu, Jane (J.); Marck, Edmond (E.C.); Mabasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); 'Morgan, Tom'; Morishima, Shigeki (S.); 'Naveed Khan'; Nematollahi, Sonya (S.); 'Nikolai, Berni'; Ortmann, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Aiden (A.P.); Shah, Kiran (K.C.); Shiraiishi, Masaru (M.); Sillgenbauer, Jeffrey (J.R.); Suarez, Rhos (R.); Sullivan, Jamie (J.P.); Takasawa, Keith (K.D.); Takubo, Hiroichi (H.); Vaccio, Anne Marie (A.); Wakenell, Ray (R.A.); Weitzach, Bill (B.); Williams, Les (L.H.W.); Williamson, David (D.E.); Yeung, Lam (.)
Subject: RE: U204 Stall Meeting Agenda - 5/9/02

Inspection results of '02 Escape VIN: 1FMYU0414KC19492

LOCATION: John Elway West, Denver
OWNER: Mike Cochran (JEW Service Mgr.)
MILEAGE: 3342
BUILD DATE: 1-29-02

COMPLAINT: Stalled while driving approx. 50 mph. Noticed dash lights came on and steering became stiff; coasted to side of road, went to crank (did not turn key off) and the engine restarted. Occurred at around 2500 miles and

has not

happened since.

DIAGNOSTICS: Went through the latest TSB/ISM draft; no concerns were found except for the following:

- There was battery acid in the batt. tray that had seeped down onto grounds G-104 and 105; some corrosion was evident.
- The customer's key chain contained several oz. of additional weight.

Jim Noteboom

Powertrain Field Quality Specialist/Denver

Phone: 303.674.4015 FAX: 303.674.5730

Page: 1.888.376.1980

From: Noteboom, Jim (J.E.)
Sent: Thursday, May 09, 2002 3:46 PM
To: Sanders, Muriel (M.S.); Altoonlan, Don (D.J.); Badgley, Joel (J.K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); 'Cary Powell'; Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); 'Dan Rothweiler'; De Pena, Juan (J.E.); Diaz, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); 'John McDonald'; 'Jones, Andy'; Jordan, Donald (D.E.); Karal, Shinji (S.); King, Robert (R.F.); Klostermann, Eric (E.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Lintaco, Steven (S.); Linda, Peter (P.A.); Liu, Jane (J.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); 'Morgan, Tom'; Morishima, Shigeki (S.); 'Navsed Khan'; Nematollahi, Sonya (S.); 'Nikolai, Bernie'; Ortman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepeu, Alden (A.P.); Shah, Kiran (K.C.); Shirahishi, Masaru (M.); Stigenbauer, Jeffrey (J.R.); Suarez, Rhoe (R.); Sullivan, Jamie (J.P.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Vecchio, Anne Marie (A.); Wakanoff, Ray (R.A.); Wettach, Bill (B.); Williams, Les (L.H.W.); Williamson, David (D.E.); Yeung, Lem (.)
Subject: RE: U204 Stall Meeting Agenda - 6/9/02

Inspection results of '02 Escape VIN: 1FMYUO414KC19492

LOCATION: John Elway West, Denver
OWNER: Mike Cochran (JEW Service Mgr.)
MILEAGE: 3342
BUILD DATE: 1-29-02

COMPLAINT: Stalled while driving approx. 50 mph. Noticed dash lights came on and steering became stiff; coasted to side of road, went to crank (did not turn key off) and the engine restarted. Occured at around 2500 miles and has not happened since.

DIAGNOSTICS: Went through the latest TSB/ISM draft; no concerns were found except for the following:

- There was battery acid in the batt. tray that had seeped down onto grounds G-104 and 105; some corrosion was evident.
- The customer's key chain contained several oz. of additional weight.

Jim Noteboom
Powertrain Field Quality Specialist/Denver
Phone: 303.674.4015 FAX: 303.674.5730
Page: 1.888.375.1980

Subject: 1:1 w/ Mark Freeland and Jeff Helms
Location: Jeff's Office

Start: Wed 10/16/2002 10:00 AM
End: Wed 10/16/2002 10:30 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Nuno, Elena (E.S.); Freeland, Mark (M.); Helms, Jeffrey (J.H.)

Subject: Updated: Six Sigma Update Meeting with Mark Freeland, Marsha Samus, James McBride, Dang Liu and Jeff Helms, E. Nuno Contact, ext. 23121
Location: CR 3243
Start: Wed 10/2/2002 1:00 PM
End: Wed 10/2/2002 2:00 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Required Attendees: Nuno, Elena (E.S.); Helms, Jeffrey (J.H.); Freeland, Mark (M.); Samus, Marsha (M.A.); McBride, James (J.R.); Liu, Dang (D.R.); SRL Conf Room 3243 (10)

9/25/02 Update: Please be advised this meeting is being rescheduled from 9:00am to 10:00am to 1:00pm to 2:00pm. NOTE new CR is 3243.

Subject: Updated: Six Sigma Update Meeting with Mark Freeland, Marsha Samus, James McBride, Dang Liu and Jeff Helms, E. Nuno Contact, ext. 23121
Location: CR 3243
Start: Wed 10/2/2002 1:00 PM
End: Wed 10/2/2002 2:00 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Required Attendees: Nuno, Elena (E.S.); Helms, Jeffrey (J.H.); Freeland, Mark (M.); Samus, Marsha (M.A.); McBride, James (J.R.); Liu, Dang (D.R.); SRL Conf Room 3243 (10)

9/25/02 Update: Please be advised this meeting is being rescheduled from 9:00am to 10:00am to 1:00pm to 2:00pm. NOTE new CR is 3243.

Subject: Updated: Discuss V Engine's Desires Regarding 6 Sigma Support on the Kavlico dPFE Issue
Meeting with Mark Freeland, Jim O'Neal, Bruce Bryant, Dave Amos & Jeff Helms.

Location: PDC Conf Rm 1V-F75

Start: Tue 8/20/2002 10:00 AM
End: Tue 8/20/2002 10:30 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Nuno, Elena (E.S.); Freeland, Mark (M.); O'Neal, Jim (J.D.); Bryant, Bruce (B.D.); Amos, David (D.E.); Helms, Jeffrey (J.H.); PDC Conf Rm 1V-F75 (10)

8/19/02 UPDATE:

Meeting time only being changed from 9:30am to 10:00am TO 10:00am to 10:30am. Sorry for the short notice, but Jeff Helms was just informed that he must attend a meeting offsite and that meeting time conflicted with this meeting.

Subject: Updated: Discuss V Engine's Desires Regarding 6 Sigma Support on the Kevjco dPFE Issue Meeting with Mark Freeland, Jim O'Neill, Bruce Bryant, Dave Amos & Jeff Helms.
Location: PDC Conf Rm 1V-F75
Start: Tue 8/20/2002 10:00 AM
End: Tue 8/20/2002 10:30 AM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Required Attendees: Nuno, Elena (E.S.); Freeland, Mark (M.); O'Neill, Jim (J.D.); Bryant, Bruce (B.D.); Amos, David (D.E.); Helms, Jeffrey (J.H.); PDC Conf Rm 1V-F75 (10)

8/19/02 UPDATE:

Meeting time only being changed from 9:30am to 10:00am TO 10:00am to 10:30am. Sorry for the short notice, but Jeff Helms was just informed that he ~~will~~ attend a meeting offsite and that meeting time conflicted with this meeting.

Subject: Kavlico DPFE Project Disengagement Meeting w/ Mark Freeland, Jeff Helms, Dave Amos & Bruce Bryant
Location: Dave Amos' Office, Room 2V-A03, PDC
Start: Wed 8/7/2002 3:30 PM
End: Wed 8/7/2002 4:30 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Required Attendees: Nuno, Elena (E.S.); Amos, David (D.E.); Bryant, Bruce (B.D.); Freeland, Mark (M.); Helms, Jeffrey (J.H.)

Subject: 1:1 w/ Jeff Helms & Mark Freeland
Location: Jeff's Office

Start: Thu 7/11/2002 3:15 PM
End: Thu 7/11/2002 3:45 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Nuno, Elena (E.S.); Freeland, Mark (M.); Helms, Jeffrey (J.H.)

Subject: Updated: Need to discuss Mark Freeland's project on dPFE sensor

Start: Tue 5/14/2002 3:30 PM
End: Tue 5/14/2002 4:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Nuno, Elena (E.S.); Gearhart, Chris (C.); Freeland, Mark (M.); Amos, David (D.E.); Helms, Jeffrey (J.H.); SRL Conf Room 2243 (10); Plants, Paul (P.G.)

UPDATE:

Meeting being rescheduled from Monday, May 20th @ 2:00pm to Tuesday, May 14th at 3:30pm. Chris, we understand that you are not available to attend this meeting tomorrow. This notice being sent to you as an FYI.

Subject: Updated: Need to discuss Mark Freeland's project on dPFE sensor

Start: Tue 5/14/2002 3:30 PM
End: Tue 5/14/2002 4:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Nuno, Elena (E.S.); Gearhart, Chris (C.); Freeland, Mark (M.); Arno, David (D.E.); Helms, Jeffrey (J.H.); SRL Conf Room 2243 (10); Planta, Paul (P.G.)

UPDATE:

Meeting being rescheduled from Monday, May 20th @ 2:00pm to Tuesday, May 14th at 3:30pm. Chris, we understand that you are not available to attend this meeting tomorrow. This notice being sent to you as an FYI.

Subject: Updated: Need to discuss Mark Freeland's project on dPFE sensor

Start: Tue 5/14/2002 3:30 PM
End: Tue 5/14/2002 4:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Nuno, Elena (E.S.); Gearhart, Chris (C.); Freeland, Mark (M.); Amos, David (D.E.); Helms, Jeffrey (J.H.); SRL Conf Room 2243 (10); Plante, Paul (P.G.)

UPDATE:

Meeting being rescheduled from Monday, May 20th @ 2:00pm to Tuesday, May 14th at 3:30pm. Chris, we understand that you are not available to attend this meeting tomorrow. This notice being sent to you as an FYI.

Subject: Updated: Kavlico Meeting, E. Nuno Contact, 23121
Start: Thu 4/18/2002 9:00 AM
End: Thu 4/18/2002 11:00 AM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Required Attendees: Nuno, Elena (E.S.); Freeland, Mark (M.); Hargas, Jon (.)

Subject: Kavlico Meeting E. Nuno Contact ext. 23121

Start: Thu 4/18/2002 11:00 AM
End: Thu 4/18/2002 12:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Nuno, Elena (E.S.); SRL Conf Room 2151 (20); Hengas, Jon (.); Freeland, Mark (M.)

From: Oboza, Doran (D.)
Sent: Friday, November 01, 2002 9:05 AM
To: Agarwal, Apoorva (A.); Banks, Nemline (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Ivaniszym, Teri (T.E.); Kalamdari, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Molley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ika (I.C.); Prater, Joseph (J.A.); Razzee, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedone, Damlen (D.J.); Tobla, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jehad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Anzulowicz, Ken (K.J.); August, Dan (D.); Balls, Don (D.W.); Baxm, Joe (J.M.); Bednerek, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broek, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Ceruso, Bary (B.); Castleman, William (W.G.); Centilvre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davfs, Jerry (J.W.); Debbie Paliani; Dhaliwal, Dave (B.S.); Duneske, Dennis (D.R.); Dyson, Simon (S.C.); Fike, Barbara (B.G.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gee, Sterling; Gerke, David (D.W.); Giles, Anthony (A.T.); Gliner, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmstadler, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircafi, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olef (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lubo Djuric; MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matyslewicz, Edwin (E.J.); McCawin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popa, Colln (C.M.); Popenas, Michael (M.J.); Pulela, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Relchenbach, Ron (R.W.); Rossman, Michael (M.D.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennile (T.C.); Sopko, Gary (G.M.); Soulliera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Sykora, Andrew (A.D.); Szczepaniak, Gerard (G.); Teraszklewicz, Alexande (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanlee (S.M.); Vangavolu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegryzn, Michael (M.J.); Wepler, Ron (R.J.); Werner, Barbara (B.R.); White, Christopher (C.); Wlatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.)
Cc: Newman, Kevin (K.); Shepherd, Leroy (L.O.)
Subject: Revision to 11/13/02 Powertrain Agenda

Agenda for 11/13/02

Yard Audit Review	G. MacDonald
Early Warranty Review	D. Oboza
New Warranty Data	D. Oboza
Transceiver Update	D. Oboza/B. Wiedmeyer
Pressure Decay Test Update	C. Trombetta
Coolant Clamp Activation Tool	G. MacDonald
P/S Pressure Transducer Design Changes	K. Newman/L. Shepherd

I apologize for the confusion.

thanks,

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
Phone - 734-487-0604

Pager - 734-296-6439
email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."
Steve McQueen

ERR2-027-G 12522

From: Oboza, Doran (D.)
Sent: Friday, November 01, 2002 8:59 AM
To: Agarwal, Apoorva (A.); Banks, Nemline (N.B.); Caryea, Kevin (K.W.); Cvatkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Faahina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamora, Armand (A.A.); Ivariszyn, Teri (T.E.); Kalamdari, Rajeev (R.S.); Matt Mork; Morton, Michael (M.F.); Motley, Lasia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Sellock, Beth (B.); Steams, Pamm (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jahad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufon, Bart (B.O.); Anderson, Johnny (J.D.); Arzulowicz, Keri (K.J.); August, Dan (D.); Bails, Don (D.W.); Baum, Joe (J.M.); Badnarak, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Castleman, William (W.G.); Cantilvre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shene (S.A.); Coats, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pafani; Dhaliwal, Dave (B.S.); Dunsake, Dennis (D.R.); Dyaon, Simon (S.C.); Fika, Barbara (B.G.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazecki, Timothy (T.A.); Gee, Sterling; Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hagde, Damodar (D.M.); Helmsstatter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lubo Djuric; MacDonald, George (G.F.); Madel Jr., Stan (S.P.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Papa, Colin (C.M.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ron (R.W.); Roasman, Michael (M.D.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tannille (T.C.); Sopko, Gary (G.M.); Soulliere, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Sykora, Andrew (A.D.); Szczepaniak, Gerard (G.); Taraszewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Torosien, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Vangevolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepter, Ron (R.J.); Werner, Barbara (B.R.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.)
Cc: Shepherd, Leroy (L.O.); Newman, Kevin (K.)
Subject: Powertrain PQR - Future Agendas

Agenda for 11/6/02

Yard Audit Review	G. MacDonald
PCM - P0605	J. Jahshan
Early Warranty Review	D. Oboza
Coolant Leaks - Plant Contaminents	S. Holloway/Anne Dye
C90 Connector Update	A. D'Agostino/S. Holloway
Engine Oil Leaks - L65	G. MacDonald
Starter Replacements	B. Johnson/D. Oboza
Battery Update	D. Oboza

Agenda for 11/13/02

Yard Audit Review	G. MacDonald
Early Warranty Review	D. Oboza
New Warranty Data	D. Oboza
Transceiver Update	D. Oboza/B. Wiedmeyer
Pressure Decay Test Update	C. Trombetta

Coolant Clamp Activation Tool
Power Steering Pump Design Changes

G. MacDonald
K. Newman/L. Shepherd

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-467-0804

Pager - 734-298-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From:
Sent:
To:

Oboza, Doran (D.)
Thursday, October 24, 2002 2:16 PM
Agarwal, Apoorva (A.); Banke, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovek, Peter (P.); Deegan, Mike (M.D.); Falls, Stephan (S.W.); Fashina, Ayodaji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamora, Armand (A.A.); Ivaniszyn, Teri (T.E.); Kalamdari, Rajeev (R.S.); Matt Morin; Marton, Michael (M.F.); Matley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Pam (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winakoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jehad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajukofu, Bart (B.O.); Anderson, Johnny (J.D.); Arzulowicz, Ken (K.J.); Augat, Dan (D.); Bells, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Deryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broekl, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Ceruso, Barry (B.); Castleman, William (W.G.); Centivire, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shana (S.A.); Coats, Richard (R.M.); Colatruiglo, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jarry (J.W.); Debbis Palleni; Dhallwal, Dave (D.S.); Duneske, Dennis (D.R.); Dyson, Simon (S.C.); Fike, Barbara (B.G.); Fkuker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Tej (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gee, Sterling; Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciaro, Steve (S.P.); Hegde, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Isin (I.G.); Kijna, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lzotta, Brian (B.W.); Longwell, Christine (C.); Lubo Djuric; MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Marsec, Lance (L.D.); Matthews, Gary (G.); Matyslawicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patal, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Pupa, Colin (C.M.); Popenas, Michael (M.J.); Puleta, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ron (R.W.); Roessman, Michael (M.D.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Sykora, Andrew (A.D.); Szczepaniak, Gerard (G.); Teraszkiwicz, Alexandre (A.S.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Sherise (S.M.); Vangevolu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); Werner, Barbara (B.R.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.)

Subject: Powertrain PQR Future Agendas

Agenda for 10/30/02

Yard Audit Review
PCM - P0605
Early Warranty Review
Learn Detailed Wiring Review
PATS Transceiver
Exhaust Rattle
Eng Mounts Review
TR8 Sensor Update - Six Sigma

G. MacDonald
J. Jahshan
D. Oboza
R. Lapina/J. Palmer
D. Oboza/S. Gee
K. Arzulowicz/G. MacDonald
K. Arzulowicz/R. Mihora
J. Rezaee

Agenda for 11/6/02

Yard Audit Review
PCM - P0605
Early Warranty Review
C90 Connector Update
Engine Oil Leaks - L65
Starter Replacements

G. MacDonald
J. Jahshan
D. Oboza
A. D'Agostino/S. Holloway
G. MacDonald
K. Singh/S. Gee/D. Oboza

Battery Update

D. Oboza

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-467-0804

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email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Oboza, Doran (D.)
Sent: Friday, October 18, 2002 12:05 PM
To: Agarwal, Apoorva (A.); Banks, Nermina (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Frelend, Mark (M.); Glennamora, Armand (A.A.); Iwaniszyn, Teri (T.E.); Kalamdari, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razaee, John (J.H.); Sellack, Beth (B.); Stearns, Pam (P.V.); Tedone, Damien (D.J.); Tobie, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jehad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bari (B.O.); Anderson, Johnny (J.D.); Anzulowicz, Ken (K.J.); August, Den (D.); Balis, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Deryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Ceruso, Barry (B.); Castleman, William (W.G.); Cantilva, James (J.C.); Carvantes, Eduardo (E.J.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallari; Dhallwal, Dave (D.S.); Dunaska, Dennis (D.R.); Dyson, Simon (S.C.); Fike, Barbara (B.G.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Tej (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gee, Sterling; Gerke, David (D.W.); Giles, Anthony (A.T.); Glimmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmetstader, Donald (D.G.); Hettla, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahahan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunda, Olaf (O.); Landzabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysalewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mikhora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeith, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Pope, Colin (C.M.); Popenas, Michael (M.J.); Pulkala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Roasman, Michael (M.D.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singlay, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Souffiere, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Sykora, Andrew (A.D.); Szczepaniak, Gerard (G.); Taraszklewicz, Alexande (A.S.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Vangavolu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrym, Michael (M.J.); Wepler, Ron (R.J.); Werner, Barbara (B.R.); White, Christopher (C.); Wlatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.)
Cc: Samotuk, Kenneth (K.F.)
Subject: Powertrain PQR Agenda for 10/23/02

Agenda for 10/23/02

FACTS Update	C. White/R. Wepler
Yard Audit Review	G. MacDonald
Early Warranty Review	D. Oboza
Fuel Pump Update	K. Samotuk/D. Oboza
Roadmaps Overview	D. Oboza
C90 Connector Update	A. D'Agostino/S. Holloway
Gas Caps - Six Sigma	D. Tedone
VMV Six Sigma Project	K. Coryea
PCM - P0605	J. Jahahan

PQR Meeting time is 9:30 - 10:30 in the WSAP Chart room
VRT meeting is 10:30 - 11:30 in the Maverick room

Doran Oboza

ER02-027-G 12831

Powertrain Quality Analyst - Wayne Assembly Plant
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"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Oboza, Doran (D.)
Sent: Friday, October 11, 2002 10:27 AM
To: Agarwal, Apoorva (A.); Banke, Nemine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Fouat - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Ivaniszyn, Teri (T.E.); Kalamdeni, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Preter, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jehad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufon, Bart (B.O.); Anderson, Johnny (J.D.); Anzulowicz, Ken (K.J.); August, Dan (D.); Balls, Dan (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boesner, Derryle (D.R.); Brian Johnson; Bracketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Castleman, William (W.G.); Cantilva, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pailani; Dhaliwal, Dave (D.S.); Dunesko, Dennis (D.R.); Dyson, Simon (S.C.); Fika, Barbara (B.G.); Flucker, James (J.A.); Fowkes, Michael (M.S.); Francisco Fernandez (E-mell); Franklin, Tej (T.); Gambie, Craig (C.R.); Gazdecki, Timothy (T.A.); Gee, Starling; Garke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Halmstadter, Donald (D.G.); Hattie, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer, King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carol (C.A.); Morabto, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Pratul (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Papa, Colin (C.M.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Remy, George (G.); Reichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Sykora, Andrew (A.D.); Szczepanlak, Gerard (G.); Taraszkewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Torosien, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanice (S.M.); Vangevoku, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); Warner, Barbara (B.R.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.)
Cc: Samoluk, Kenneth (K.F.)
Subject: Powertrain PQR Agenda - 10/16/02

Agenda for 10/16/02

Yard Audit Review	G. MacDonald
Early Warranty Review	D. Oboza
VFG Leader Report Outs	VFG Leaders
Battery Improvement Actions	D. Oboza/M. Morton
Loose Rocker Arms - Early Warranty	J. Broski/G. MacDonald
Missing T-Stat	J. Broski/G. MacDonald
PCM - P0605	J. Jahshan

VQR on 10/17/02

Agenda for 10/23/02

FACTS Update	C. White/R. Wepler
Yard Audit Review	G. MacDonald
Early Warranty Review	D. Oboza

Fuel Pump Update
Roadmaps Overview
Pressure Decay Test Update
Coolant Leaks Update
C90 Connector Update
Gas Caps - Six Sigma
VMV Six Sigma Project

K. Samoluk/D. Oboza
D. Oboza
C. Trombetta
J. Florence
A. D'Agostino/S. Holloway
D. Tedone
K. Coryea

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-457-0804

Pager - 734-296-5439

email - doboza1@ford.com

From: Oboza, Doran (D.)
Sent: Tuesday, October 08, 2002 8:09 AM
To: Agerwal, Apoorva (A.); Banke, Nerrilna (N.B.); Coryea, Kevin (K.W.); Cvatkovski, Peter (P.); Daegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Federa, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Glennamore, Armand (A.A.); Ivaniszyn, Teri (T.E.); Kalandani, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razaes, John (J.H.); Selleck, Beth (B.); Stearns, Pam (P.V.); Tedona, Damien (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jihad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufah, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Balls, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Darryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Ceruso, Barry (B.); Castleman, William (W.G.); Centilvre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Palani; Dhaliwal, Dave (D.S.); Dunaake, Dennis (D.R.); Dyson, Simon (S.C.); Fike, Barbara (B.G.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gee, Sterling; Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Ragnald (R.); Gucciardo, Steve (S.P.); Hegda, Damodar (D.M.); Helmsstader, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kirca, Isin (I.G.); Kline, Danlea (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Landzabel, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christina (C.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matyskiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Mossa, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popa, Colin (C.M.); Popenas, Michael (M.J.); Pulkala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spanlak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Sykora, Andrew (A.D.); Szczepaniak, Gerard (G.); Taraszkiewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanlee (S.M.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegryn, Michael (M.J.); Wepler, Ron (R.J.); Werner, Barbara (B.R.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.)
Subject: Powertrain VRT Meeting

Time of the VRT is changed from 10:30 to 11:30 on Wednesday. The meeting is still in the Maverick Room.

PQR timing is 9:30 to 10:30.

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

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"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Oboza, Doran (D.)
Sent: Friday, October 04, 2002 12:44 PM
To: Agarwal, Apoorva (A.); Banks, Nermine (N.B.); Coryea, Kevin (K.W.); Ovetkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Glanmora, Armand (A.A.); Ivaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Matt Marin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razasa, John (J.H.); Selleck, Beth (B.); Stearns, Famm (P.V.); Tedona, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jehad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Anzulowicz, Ken (K.J.); August, Dan (D.); Balls, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Braski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Castleman, William (W.G.); Centilmo, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shana (S.A.); Coats, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Paleni; Dhaliwal, Dave (B.S.); Dunesko, Dennis (D.R.); Dyson, Simon (S.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gee, Sterling; Gerke, David (D.W.); Giles, Anthony (A.T.); Glimer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnle, Brian (B.W.); Kircall, Ieh (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lubo Djurk; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Moreabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Piasencia, David (D.B.); Post-bames, Donna (D.F.); Pope, Coffin (C.M.); Popenas, Michael (M.J.); Pullela, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Samimy, Bahman (Ben.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliers, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Sykora, Andrew (A.D.); Szczepaniak, Gerard (G.); Teraszkiewicz, Alexande (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Tourao, Lyle (L.W.); Tucker, Sherisse (S.M.); Vengavotu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); Werner, Barbara (B.R.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willie, Dean (D.G.)

Subject: Powertrain PQR Meeting Minutes



Meeting Minutes
(10_02_02).doc...

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-457-0604

Pager - 734-296-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

Meeting Minutes - Powertrain PQR

Meeting Date: 10/2/02
 Recorder: Doran Oboza

Topics	Presenter	Discussion	Actions/Requests	Responsible	Due By	Next Update
Attendance		1. There were only about 10 members of the Powertrain team at the PQR on 10/2/02.				
Team Updates		1. Gas Caps Six Sigma project is now 5 months old and still receiving NO D&R support from Chassis Engineering.				
C90	A. D'Agostino	<ol style="list-style-type: none"> 1. New connector needs a new bracket and the original timing from the supplier for the new bracket is 22 weeks. 2. Supplier has been asked to compress that timing 3. Team is going to look at other bracket suppliers 4. Timing for trial is currently looking like January 5. C90 will be discussed on a weekly basis until new connector is instituted 6. SPI seeing issues with the connector on 2003 MY 	1. New Timing from bracket supplier	A. D'Agostino		10/9/02
Alternator B+ Terminal DC Nutrunner	M. Roseman	<ol style="list-style-type: none"> 1. Angle data has been given to D. Campbell 	1. Parameters to be set and nutrunner to be tied to line	D. Campbell		10/9/02
MTX Cable Adjust	K. Arszulowicz	<ol style="list-style-type: none"> 1. Team is conducting weekly resets of manual trans cable adjustment and the data does show a small improvement. 2. There are issues when inexperienced operators are on the job. 3. This is blind operation and requires extensive training 	1. Team to investigate possibility of a new process for this issue	M. Roseman/T. Nguyen		10/9/02
Audit Review	D. Dhallwal	<ol style="list-style-type: none"> 1. Audits have been clean for the 2 days prior to PQR. 2. Team was seeing issues with the C90 not being connected to the bracket. This issue has been addressed and seems to be contained. 	1.			10/9/02
Early Warranty	D. Oboza	<ol style="list-style-type: none"> 1. 2003 MY warranty - still seeing issues with C90 not connected, coolant clamps not activated and Trans cooler lines loose. 2. DC nutrunner on Trans Cooler lines was not being used due to resistance. It is being used currently 3. Coolant leak pressure decay system is still awaiting funding approval 4. C90 - See above 5. Loose rocker arm issues (SPI) have been forwarded to Dearborn Engine along with missing thermostat issues. 	2.			10/9/02

From: Oboza, Doran (D.)
Sent: Tuesday, September 17, 2002 12:52 PM
To: Agerwal, Apoorva (A.); Banke, Nemline (N.B.); Coryea, Kevin (K.W.); Cvelkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephan (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Ivaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Leela (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jihad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Anzulowicz, Ken (K.J.); August, Dan (D.); Bala, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brockett, Ronald (R.K.); Brook, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Castleman, William (W.G.); Contivra, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Coletruglio, Vinca (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Palani; Dhallwal, Dave (B.S.); Dunesko, Dennis (D.R.); Dyson, Simon (S.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklh, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Raghnald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmsstadler, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircait, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardzabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lotus, Brett (B.R.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patal, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Papa, Collin (C.M.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Roseman, Michael (M.D.); Samimy, Bahman (Ben.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spaniak, Terrance (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkiewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanlee (S.M.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); Werner, Barbara (B.R.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.J.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wille, Deon (D.G.)
Subject: Powertrain PQR Agendas

Agenda for 9/18/02

Yard Audit Review
Learn Detailed Wiring Review
VFG Leader Report Out
Brake Switch - Six Sigma

G. MacDonald
J. Palmer/R. Lapina
VFG Leaders
J. Rezaee

Agenda for 9/25/02

FACTS Overview
Yard Audit Review
Alternator - Six Sigma
Roadmap Update
ATX Shifter Knob Quality
ATX Shifter Quality - Six Sigma

R. Wepler/C. White
G. MacDonald
S. Foust-Smith
D. Oboza
B. Tobis
B. Tobis

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
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email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."
Steve McQueen

From:
Sent:
To:

Oboza, Doran (D.)
Monday, September 09, 2002 11:15 AM
Agerwal, Apoorva (A.); Banke, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Fraeland, Mark (M.); Giannamora, Armand (A.A.); Ivanlazyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaso, John (J.H.); Sefleck, Beth (B.); Steams, Pamm (P.V.); Tedona, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winakoff, Bryan (B.D.); Zubeck, Michael (M.W.); Abbas, Jihad (J.F.); Acuff Jr., Melvin (M.); Ahmed, Karmel (K.); Ajutufon, Bart (B.O.); Anderson, Johnny (J.D.); Arzulowicz, Ken (K.J.); August, Dan (D.); Balls, Don (D.W.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); BZIGLER was deleted 20020825; Campbell, Aindrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Castleman, William (W.G.); Centilora, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clecharowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhaliwal, Dave (D.S.); Dunaske, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Tej (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Darnodar (D.M.); Helmatadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins II, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinne, Brian (B.W.); Kircall, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lorus, Brett (B.R.); LTYRELL was deleted 20020804; Lubo Djuric; MacDonald, George (G.F.); Madel Jr., Stan (S.P.); Majzoub, Malek (Z.); Marzec, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nomaeh, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Poet-barnes, Donna (D.F.); Pops, Colln (C.M.); Popenas, Michael (M.J.); Puffela, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Samimy, Bahman (Ben.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Souffera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkiwicz, Alexande (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Tourco, Lyle (L.W.); Tucker, Shanise (S.M.); Vangavolu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); WCASSISA was deleted 20020818; Wegryn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wiedmeyer, Robert (R.L.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.)

Subject:

Wednesday's Powertrain Agenda

Agenda for 9/11/02

Yard Audit Review
New Warranty data
C90 Warranty/Molex Update
Gas Caps - Six Sigma

G. MacDonald
D. Oboza
A. D'Agostino
D. Tedona

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
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"I would rather wake up in the middle of nowhere, than in any city in the world."

ER82-827-G 12847

From: Oboza, Doran (D.)
Sent: Wednesday, August 07, 2002 1:03 PM
To: Freeland, Mark (M.)
Subject: RE: Future Powertrain PQR Agendas

Hello Mark,

We had a VERY high level update on the DPFE at today's PQR.

This is what I can tell you.

- 1 - The issue is still Zetec only
- 2 - Hermo has not seen the issue as of yet, but they are 2 weeks behind in production
- 3 - Kansas City has not seen the issue yet
- 4 - We did have an EVR hose routing issue here at the plant, which was causing the EVR hose to come in contact with the EGR tube, the result being melted EVR hoses.
- 5 - The MIL Codes being recorded in the field are P0401 - Insufficient Flow
- 6 - There have been 2-3 cases of multiple repairs
- 7 - One of the multiple repairs originally had the DPFE replaced, came back 2 days later and it was determined the hoses were melted.
- 8 - 4 of the returned parts have passed an initial electrical bench test and are undergoing further testing - (all are currently considered functional)
- 9 - It is NOT blatantly obvious if the hoses are indeed melted, and could be missed if just swapping the DPFE

Two guys who know more than me

James Shopp (jshopp) - Focus Engine

Mark Bronni (mbronni) - Motorola engineer

—Original Message—

From: Freeland, Mark (M.)
Sent: Wednesday, August 07, 2002 12:45 PM
To: Oboza, Doran (D.)
Subject: RE: Future Powertrain PQR Agendas

Doran,

Can you give me any information you have on the issue with the Motorola dPFE falling on the 2.0L Zetec Focus.
Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

—Original Message—

From: Oboza, Doran (D.)
Sent: Thursday, August 01, 2002 1:13 PM
To: Agarwal, Apoorva (A.); Banke, Narmine (N.B.); Conroy, Kevin (K.W.); Cvetkovic, Peter (P.); Deagan, Mike (M.D.); Fella, Stephen

EA82-827-G 12852

(S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamora, Armand (A.A.); Gilmour, Brady (B.A.); Ivaniszyn, Teri (T.E.); Kalamian, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rasmee, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedone, Damian (D.J.); Tobia, Bruce (B.J.); Trombetta, Christopher (C.B.); Winkoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bodnarok, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brockatta, Ronald (R.K.); Broek, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassia, William (W.C.); Castleman, William (W.G.); Centivra, James (J.C.); Carvantes, Eduardo (E.J.); Chris Campbell; Oleshanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhaliwal, Dave (D.S.); Duneske, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fika, Barbara (B.G.); Florence, Jeremy (J.D.); Flukar, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gzdecki, Timothy (T.A.); Gerka, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Milka (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnis, Brian (B.W.); Kircall, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardzabal, Sergio (S.); Lizotte, Brian (B.W.); Longwell, Christine (C.); Lorus, Brett (B.R.); Lupo Djuric; MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moss, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pufeta, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Raichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Samimy, Bahman (B.); Sanda, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Souliera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepniak, Gerard (G.); Taraszkowicz, Alexande (A.S.); Thomas, Ken (K.C.); Torosian, David (D.A.); Tourno, Lyle (L.W.); Tucker, Sharisa (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegryn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Dean (D.G.); Ziegler, Brad (B.T.)

Subjects Future Powertrain PCR Agendas

Agenda for 8/7/02

TF - C90 Connector
TF - MTX Shift Cable Adjust
Shifter Knob Quality Issue
Yard Audit Review
Motorola DPF Update
New Warranty Data

A. D'Agostino (Updates on Cost and Timing)
K. Arszulowicz
B. Ajulufoh/GHSP
J. Florence/K. Arszulowicz
TBD
D. Oboza

Agenda for 8/14/02

VFG Leader Report Outs
Yard Audit Review
Coolant Leaks Update
Detect Adjust/Vision System
EVAP Warranty Review

Team
J. Florence/K. Arszulowicz
J. Florence
J. Florence
C. Whiteley

Agenda for 8/21/02

FACTS Update
ATX Shifter Quality
Water Pump Pulley Loose
Valve Train Loose
Yard Audit Review

R. Wepler/C. White
B. Tobis
G. MacDonald
J. Bruski
J. Florence/K. Arszulowicz

Agenda for 8/28/02

ATX Trans Contamination
Battery Improvement Actions
Yard Audit Review
More Added

L. Motley/S. Falls
M. Morton
J. Florence/K. Arszulowicz

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
Phone - 734-467-0604
Pager - 734-296-5439

email - doboza1@ford.com

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From:
Sent:
To:

Oboza, Doran (D.)
Thursday, August 01, 2002 1:13 PM
Agarwal, Apoorva (A.); Banke, Nemine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodaji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Brady (B.A.); Ivaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razzae, John (J.H.); Selleck, Beth (B.); Staams, Pam (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Wlnskoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamel (K.); Ajulufob, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boelner, Darryle (D.R.); Brian Johnson; Brockett, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassia, William (W.C.); Castleman, William (W.G.); Centfire, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Costa, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Paliani; Dhallwal, Dave (D.S.); Dunaska, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmsstader, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Henry (H.S.); J. Sowards; Jahahan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardzabal, Sergio (S.); Lizotta, Brian (B.W.); Longwell, Christine (C.); Lorus, Brett (B.R.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Milhara, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Dorita (D.F.); Popenas, Michael (M.J.); Puleta, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Roseman, Michael (M.D.); Samimy, Bahman (Bah.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spenak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszklewicz, Alexandra (A.S.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanlee (S.M.); Tyrell, Larry (L.J.); Vengavolu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.); Zigler, Brad (B.T.)

Subject:

Future Powertrain PQR Agendas

Agenda for 8/7/02

TP - C90 Connector
TP - MTX Shift Cable Adjust
Shifter Knob Quality Issue
Yard Audit Review
Motorola DPFB Update
New Warranty Data

A. D'Agostino (Updates on Cost and Timing)
K. Arszulowicz
B. Ajulufob/GHSP
J. Florence/K. Arszulowicz
TBD
D. Oboza

Agenda for 8/14/02

VFG Leader Report Outs
Yard Audit Review
Coolant Leaks Update
Detent Adjust/Vision System
EVAP Warranty Review

Team
J. Florence/K. Arszulowicz
J. Florence
J. Florence
C. Whiteley

Agenda for 8/21/02

FACTS Update
ATX Shifter Quality
Water Pump Pulley Loose
Valve Train Loose
Yard Audit Review

R. Wepler/C. White
B. Tobin
G. MacDonald
J. Broski
J. Florence/K. Arszulowicz

Agenda for 8/28/02

ATX Trans Contamination
Battery Improvement Actions
Yard Audit Review
Mum Added

L. Motley/S. Falls
M. Morton
J. Florence/K. Arszulowicz

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
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"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Oboza, Doran (D.)
Sent: Tuesday, July 23, 2002 9:08 AM
To: Agarwal, Apoorva (A.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Deegan, Mike (M.D.); Falis, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Glanmore, Armand (A.A.); Gilmour, Brady (B.A.); Ivaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); NBANKE was deleted 20020705; Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Winakoff, Bryan (B.D.); Zuback, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Karnal (K.); Ajulufoh, Bari (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednerek, Mark (M.P.); Boetner, Derryle (D.R.); Brian Johnson; Brackett, Ronald (R.K.); Broekl, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Centifora, James (J.C.); Carvantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coste, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Palani; Dhaliwal, Dave (B.S.); Duneske, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fawkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Graca, John (J.E.); Granado, Rodolfo (R.); Groom, Reginald (R.); Gucciaro, Steve (S.P.); Hegda, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Krcall, Ish (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardzabal, Sergio (S.); Lfzotte, Brian (B.W.); Longwell, Christine (C.); Lortua, Brett (B.R.); Luba Djuric; MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Majzoub, Malek (Z.); Maniac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihara, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plesencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Puleia, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Samlmy, Bahman (Ban.); Sand's, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullers, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepanik, Gerard (G.); Taraszkiwicz, Alexanda (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vargavolu, Sreedhar (.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.); Ziegler, Brad (B.T.)

Subject: Tomorrow's Powertrain PQR Agenda

Agenda for 7/24/02

FACTS Overview	R. Wepler
TF - Shifter Stuck in Park	B. Tobis
ATX Shifter Quality - Six Sigma	B. Tobis
TF - Detent Adjust	J. Florence/G. MacDonald
VFG Leader Report Outs	Team

Meeting Begins at 9:30 in the WSAP Chart Room.

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
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From: Oboza, Doran (D.)
Sent: Monday, July 15, 2002 3:44 PM
To: Agerwal, Apoorva (A.); Coryssa, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freetard, Mark (M.); Glennamora, Armand (A.A.); Gilmour, Brady (B.A.); Ivaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Leslie (L.M.); NBANKE was deleted 20020706; Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razese, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tedona, Damian (D.J.); Tobia, Bruce (B.J.); Trombetta, Christopher (C.B.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bert (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassia, William (W.C.); Castleman, William (W.G.); Centlivre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Costa, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhaliwal, Dave (B.S.); Duneska, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fika, Barbara (B.G.); Florence, Jeremy (J.D.); Flucker, James (J.A.); Fowkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Garke, David (D.W.); Giles, Anthony (A.T.); Gilmar, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hagde, Demodar (D.M.); Helmstadter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinrie, Brian (B.W.); Kircall, Ish (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); Nguyen, Thien (T.M.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Ptasencja, David (D.B.); Poet-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Roseman, Michael (M.D.); Samimy, Bahman (Ben.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Tarszkewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wagrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Dean (D.G.); Ziegler, Brad (B.T.)
Subject: VQR (Powertrain Schedule) - 7/18/02

Meeting is currently scheduled for 9-12pm on Thursday. More specific timing for powertrain presentations will follow.

Powertrain Overview - George MacDonald
Roadmaps Overview - Doran Oboza
Gas Caps (Loose/Defective) - Damian Tedona and Simon Dyson
Coolant Leaks - Jeremy Florence and Scott Holloway

All six panels need to be in the proper format and updated with both internal and external data.
The new DOMO - Jim Tetreault will be attending.

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
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"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Oboza, Doran (D.)
Sent: Monday, July 16, 2002 1:14 PM
To: Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arzulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boetner, Deryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Centlivre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatruiglo, Vince (V.E.); Coryea, Kevin (K.W.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pellani; Dhaliwal, Dave (B.S.); Dunaska, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Gles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmatadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Jeff Palmer; King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Ish (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malak (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mlhora, Bob (B.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Motley, Lesia (L.M.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patal, Pratul (P.J.); Ptasencia, David (D.B.); Poetbarnes, Donna (D.F.); Popenas, Michael (M.J.); Pulella, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rossman, Michael (M.D.); Samimy, Bahman (Ben.); Sands, Roger (R.P.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tannille (T.C.); Soulliere, James (J.K.); Spaniak, Terrence (T.E.); Stearns, Pam (P.V.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkiewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.); Zigler, Brad (B.T.); Agarwal, Apoorva (A.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodaji (A.); Fodera, Michael (M.J.); Fouat - Smith, Susan (S.L.); Freeland, Mark (M.); Glanville, Armand (A.A.); Gilmour, Bredly (B.A.); Ivaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); NBANKE was deleted 20020705; Norman, Ingrid (I.); Oduin, Ike (I.C.); Prater, Joseph (J.A.); Razaee, John (J.H.); Selleck, Beth (B.); Tedone, Damien (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjee (S.); Whakoff, Bryan (B.D.); Zubeck, Michael (M.W.)
Subject: July 17th Powertrain PQR Agenda

Here is Wednesday's Agenda

Agenda for 7/17/02

TF - MTX Cable Adjust	K. Arzulowicz
TF - Trans Cooler Lines	G. MacDonald
SAQ Ranking Process	G. MacDonald
Brake Switch Quality - Six Sigma	J. Razaee
Ignition Coil Warranty	D. Palami/Virtson
New Warranty Data	D. Oboza

The Powertrain Team is also scheduled to present at the VQR on Thursday, July 18th. An agenda for Thursday will be sent out later today.

Additionally, in preparation for the VQR, all the VFG Leaders need to have their overviews updated with internal and external trends and top issue paretos for Thursday.

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

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Pager - 734-296-5438

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"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Oboza, Doran (D.)
Sent: Friday, June 14, 2002 11:27 AM
To: Agarwal, Apoorva (A.); Banks, Normine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Deegen, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodaji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamora, Armand (A.A.); Gilmour, Bradley (B.A.); Ivaniazyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Leslie (L.M.); Norman, Ingrid (I.); Odian, Ike (I.C.); Prater, Joseph (J.A.); Razasa, John (J.H.); Seleck, Beth (B.); Stearns, Pamm (P.V.); Tedone, Damian (D.J.); Tobls, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufah, Bart (B.O.); Anderson, Johnny (J.D.); Arzulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Casales, William (W.C.); Castleman, William (W.G.); Cantlira, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jarry (J.W.); Debble Pallan; Dhaliwal, Dave (B.S.); Duneska, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Flka, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Tai (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hagda, Demodar (D.M.); Helmstadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahahan, John; Jeff Palmer; King, Steve (S.J.); Kinne, Brian (B.W.); Kircaik, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunda, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorkus, Brett (B.R.); Lubo Djuric; MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsec, Lance (L.D.); Matthews, Gary (G.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Mcaes, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pulela, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rosaman, Michael (M.D.); Samlmy, Bahman (Ben.); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrall, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegryn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whileley, Christine (C.); Wiatr, Joseph (J.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willa, Dean (D.G.); Zigler, Brad (B.T.)
Subject: Powertrain Future Agendas



Future
Agendas.doc

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
Phone - 734-467-0604
Pager - 734-296-5439
email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

WSAP Powertrain PQR Agenda Schedule

Agenda for 6/19/02

FACTS Overview	R. Wepler
TF -C90 Connection	A. D'Agostino/S. Holloway
Wiring Concerns - Powertrain Warranty	L. Djuric/J. Palmer
Fix Powertrain Actions	M. Bednarek
VFG Leader Report Outs	VFG Leaders

Agenda for 6/26/02

FACTS Overview	R. Wepler
TF - Coolant Return Hose	B. Ajulufoh
Alternator Warranty	D. Paliani/Visteon
Alternator - Six Sigma	Susan Foust-Smith
Coolant Leak Detection Sys - Six Sigma	J. Florence/C. Trombetta
Gas Caps Update - Six Sigma	D. Tedone/C. Whiteley
Roadmaps Review	D. Oboza

Agenda for 7/3/02

No PQR Due to Plant Shutdowns

Agenda for 7/10/02

No PQR Due to Plant Shutdowns

Agenda for 7/17/02

FACTS Overview	R. Wepler
TF - MTX Cable Adjust	K. Arzulowicz
ATX Shifter Quality - Six Sigma	B. Tobla
Brake Switch Quality - Six Sigma	J. Rezaee
Battery Degradation - Six Sigma	M. Morton (Move to end of August per Mike Morton Request)
Ignition Coil Warranty	D. Paliani/Visteon
New Warranty Data	D. Oboza

From: Oboza, Doran (D.)
Sent: Friday, May 31, 2002 8:43 AM
To: Freeland, Mark (M.)
Subject: RE: 2.0L Zetec Focus C80 Connector

I forwarded the message.

Tony's ID is ADAGOST3

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, May 30, 2002 4:18 PM
To: Oboza, Doran (D.)
Cc: Awad, Mahmoud (M.I.); Maurer, James (J.B.); McCoy, James (J.D.); Gates, Freeman (F.C.); Rossi, Roberto (R.A.); Planke, Paul (P.G.)
Subject: 2.0L Zetec Focus C80 Connector

Doran,

Could you please forward this to A. D'Agostino, as I can not locate him in the CDS look up.

Thanks

Could you please provide me with a list of all applications (Engine/Vehicle Combinations) which use the same connector as has been causing all the trouble on the 2.0L Zetec Focus. I assume that there are probably several users of both sides of this connector.

Another question,
Why are some, but not all of the non gold plated pins in this connector greases with terminal grease?

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Oboza, Doran (D.)
Sent: Thursday, May 23, 2002 11:08 AM
To: Agarwal, Apoorva (A.); Banke, Narmine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Devonport, Marty (M.F.); Deegan, Mike (M.D.); Falls, Stephan (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Brady (B.A.); Iwaniszyn, Teri (T.E.); Kalamdani, Rajeev (R.S.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Sellack, Beth (B.); Stearns, Pam (P.V.); Tedone, Damian (D.J.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufah, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.L.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boetner, Deryle (D.R.); Brian Johnson; Brockett, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Casslea, William (W.C.); Castleman, Willem (W.G.); Centilive, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Paliani; Dhaliwal, Dave (B.S.); Duneska, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); FJORDAN2 was deleted 20020508; Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciaro, Steve (S.P.); Hegde, Darnodar (D.M.); Helmstadter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (S.J.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); King, Steve (S.J.); Kinnle, Brian (B.W.); Kircali, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorius, Brett (B.R.); Lupo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Poet-barnes, Donna (D.F.); Popanas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Roseman, Michael (M.D.); Samimy, Bahman (Benny); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkiewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vengavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerard (G.); Washington, Eric (E.D.); Wagrzyn, Michael (M.J.); Wepler, Ron (R.L.); White, Christopher (C.); Whiteley, Christina (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Dean (D.G.); Ziegler, Brad (B.T.)

Subject: Powertrain PQR - May 29th - Agenda

Agenda for 5/29/02

FACTS Overview
TF -C90 Connection
Other Wiring Concerns - Warranty
TF - MTX Shift Adjust
Gas Cap - 6 Sigma Project
Evap/VMV - 6 Sigma
TRS Missing O-Ring - G8D

R. Wepler
A. D'Agostino/S. Holloway
L. Djuric/I. Palmer
K. Arszulowicz/E. Moses
D. Tedone/C. Whiteley
K. Coryea/C. Whiteley
Van Dyke

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-467-0604

Pager - 734-296-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From:
Sent:
To:

Oboza, Doran (D.)

Tuesday, May 21, 2002 12:36 PM

Agarwal, Apoorva (A.); Banke, Narmine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Deegen, Mike (M.D.); Falls, Stephan (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Faust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Brady (B.A.); Iwaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezase, John (J.H.); Selleck, Beth (B.); Stearns, Pam (P.V.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonja (S.); Winehoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufah, Bart (B.O.); Anderson, Johnny (J.D.); Arazukowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Derryle (D.R.); Brian Johnson; Brocketto, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassela, William (W.C.); Castleman, William (W.G.); Centilvra, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatriglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhallwal, Dave (B.S.); Duneske, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); FJORDAN2 was deleted 20020509; Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gliner, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hagde, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kircali, Jain (J.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabel, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Pfandels, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Puleala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Raichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rosman, Michael (M.D.); Samimy, Bahman (Benny.); Sanda, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Terrille (T.C.); Soullera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Surgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Teraszkiewicz, Alexande (A.S.); Tedone, Damian (D.J.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangevoiu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whitaley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.); Ziglar, Brad (B.T.)

Subject:

Agenda for Tomorrow's Powertrain PQR

Agenda for 5/22/02

FACTS Overview

R. Wepler

TF - New Ground Screws Update

A. D'Agostino

TF - Trans Oil Cooler Lines

G. MacDonald

BB - Battery Degradation - Six Sigma

M. Morton

BB - Trans Range Sensor

J. Rezase

Early Warranty

D. Oboza

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

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email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."
Steve McQueen

From: Oboza, Doran (D.)
Sent: Monday, May 13, 2002 10:15 AM
To: Agarwal, Apoorva (A.); Banks, Nemine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Daegen, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Glennamore, Armand (A.A.); Gilmour, Brady (B.A.); Ivaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Steams, Pam (P.V.); Tobie, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufon, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Darryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broekl, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Cantifora, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coote, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhaliwal, Dave (B.S.); Duneske, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); F.JORDAN2 was deleted 20020508; Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Tai (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Gilles, Anthony (A.T.); Glimmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hagde, Demodar (D.M.); Helmstedter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardzabal, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); Lubo Djuric; MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mhora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moaes, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pulela, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rosaman, Michael (M.D.); Samimy, Bahman (Benny); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkiwicz, Alexandre (A.S.); Tedone, Damian (D.J.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wagrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Dean (D.G.); Ziegler, Brad (B.T.)

Subject: This Week's Powertrain Agenda

Agenda for 5/15/02

FACTS Overview
Coolant Leaks
C90 Connection
VFG Leader Report outs

R. Wepler
J. Florence/C. Trombetta
A. D'Agostino/Lear/Delphi
VFG Leaders

Agenda for 5/16/02 (VQR)

Coolant Leaks
C90 Connection

J. Florence/C. Trombetta
A. D'Agostino/Lear/Delphi

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
Phone - 734-467-0604

Pager - 734-296-5439
email - doboza1@ford.com

From: Oboza, Doran (D.)
Sent: Friday, April 26, 2002 3:14 PM
To: Agarwal, Apoorva (A.); Banke, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Merty (M.F.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Bradly (B.A.); Iwaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Laela (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Preter, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Steams, Pamrn (P.V.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjee (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Boatner, Darryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Casales, William (W.C.); Castleman, William (W.G.); Centivra, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shana (S.A.); Coats, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallant; Dhaliwal, Dave (B.S.); Duneake, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Guoclaro, Steve (S.P.); Hegde, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Oiaf (O.); Lardzabal, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-james, Donna (D.F.); Popanas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rossman, Michael (M.D.); Samimy, Bahman (Benny.); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliers, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkiewicz, Alexanda (A.S.); Tedone, Damien (D.J.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.); Zigler, Brad (B.T.)

Subject: WSAP Powertrain PQR Future Agendas

Agenda for 5/1/02 - ALL HANDS MEETING

FACTS Overview	R. Wepler
TF - C90 Connection	A. D'Agostino/S. Holloway
TF - Top/Bottom Rad Hose Leaks	J. Florence/S. Holloway
TF - Coolant Return Hose Dmg	B. Ajulufoh
ATX Shifter - 6 Sigma	B. Tobis
Brake Switch - 6 Sigma	J. Rezaee

Agenda for 5/8/02

FACTS Overview	R. Wepler
TF - C90 Connection	A. D'Agostino/S. Holloway
TF - Top Other Wiring Concerns	A. D'Agostino/R. Wepler
TF - MTX Difficult to Shift	K. Arszulowicz
New Warranty data	D. Oboza
Early Warranty	D. Oboza

Electrical Grounds - 6 Sigma
Battery Degradation - 6 Sigma

P. Cvetkovski/J. Reszue
M. Morton

Agenda for 5/15/02

FACTS Overview
TF - Top/Bottom Rad Hose Leaks
TF - New Ground Screws Update
TF - Trans Oil Cooler Lines
VFG Leader Updates

R. Wepler
J. Florence/S. Holloway
A. D'Agostino
G. MacDonald
VFG Leaders

Agenda for 5/22/02

FACTS Overview
TF -C90 Connection
TF - Detent
TF - Top Other Wiring Concerns
Vision System Update
Early Warranty
Gas Cap - 6 Sigma Project
Evap/VMV - 6 Sigma

R. Wepler
A. D'Agostino/S. Holloway
J. Florence
A. D'Agostino/R. Wepler
J. Florence
D. Oboza
D. Tedone
K. Corrye/C. Whitely

NOTE - TF means Top Functional Issue

Doran Oboza

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"I would rather wake up in the middle of nowhere, than in any city in the world."
Steve McQueen

Subject: Powertrain VRT - All Hands Meeting
Location: WSAP - Chart Room

Start: Wed 5/1/2002 9:30 AM
End: Wed 5/1/2002 11:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Oboza, Doren (D.); Agarwal, Apoorva (A.); Banks, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Faahina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Glanmore, Armand (A.A.); Gilmour, Brady (B.A.); Ivankov, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Lesla (L.M.); Norman, Ingrid (I.); Ockum, Ike (I.C.); Prafer, Joseph (J.A.); Rozasa, John (J.H.); Selleck, Beth (B.); Stearns, Pamm (P.V.); Tobls, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjee (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Karnal (K.); Ajulufah, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boetner, Derryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Brook, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Centivire, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Paffani; Dhallwal, Dave (D.S.); Dureska, Dennis (D.R.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fucker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Garke, David (D.W.); Giles, Anthony (A.T.); Glimmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (R.); Granados, Rodolfo (R.); Groom, Reginald (R.); Guoclaro, Steve (S.P.); Hegde, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnle, Brian (B.W.); Kircall, Ish (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Claf (O.); Lardjebel, Sergio (S.); Lizotte, Brian (B.W.); Lorkus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Mersac, Lance (L.D.); Matthews, Gary (G.); Mahyalawicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carol (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nameth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-bames, Donna (D.F.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rossman, Michael (M.D.); Samimy, Bahman (Benny.); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszklewicz, Alexandre (A.S.); Tedona, Damian (D.J.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Tourco, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedher (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Dean (D.G.); Ziglar, Brad (B.T.)

Powertrain VRT Champion, Gary Johnson requested an All Hands Meeting for the powertrain team. If you are part of the Powertrain VRT, your attendance or that of a representative is required. The subject of the meeting will be the PQR Agenda for 5/1/02.

From: Oboza, Doran (D.)
Sent: Monday, April 22, 2002 1:47 PM
To: Agarwal, Apoorva (A.); Banke, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Daegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Glanhamore, Armand (A.A.); Gilmour, Brady (B.A.); Gwozdek, Tom (T.M.); Iwaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Leala (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Preter, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Pam (P.V.); Tobis, Bruce (B.J.); Trombatta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Karmel (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Darryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassela, William (W.C.); Castleman, William (W.G.); Centlivre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowick, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallari; Dhaliwal, Dave (D.S.); Duneske, Dennis (D.R.); Eggert, Daniel (D.C.); Fika, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginakt (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmsdatter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kirnie, Brian (B.W.); Krcall, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorkus, Brett (B.R.); MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Majzoub, Melak (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihara, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carol (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nameth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pulkala, Ananth (A.); Purvie, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rossman, Michael (M.D.); Samimy, Bahman (Benny); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singfey, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Sculliere, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Tarezkiewicz, Alexander (A.S.); Tedone, Damian (D.J.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerard (G.); Washington, Eric (E.D.); Wegryn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whitesley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Dean (D.G.); Zigler, Brad (B.T.)
Subject: Powertrain PQR - Future Agendas



Future
Agendas.doc

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
Phone - 734-467-0804
Pager - 734-296-5439
email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

WSAP Powertrain PQR Agenda Schedule

Agenda for 4/24/02

Top Powertrain Functional Issues
FACTS Overview
PT Containmentment Review
Early Warranty
Evap/VMV – BB
L65 (Eng Oil Leaks)
L85 (Undetermined Eng Leaks)
Roadmap Update

B. Kinnie/S. Holloway/PVT Team
B. Kinnie/R. Wepler
G. MacDonald/J. Walsh/S. Holloway
D. Oboza
K. Corysa/C. Whitely
G. MacDonald
G. MacDonald
D. Oboza

Agenda for 5/1/02

Top Powertrain Functional Issues
FACTS Overview
Early Warranty
ATK Shifter – BB
Brake Switch – BB

B. Kinnie/S. Holloway/PVT Team
B. Kinnie/R. Wepler
D. Oboza
B. Tobias
J. Rezac

Agenda for 5/8/02

Top Powertrain Functional Issues
FACTS Overview
New Warranty data
Early Warranty
Electrical Grounds – BB
Battery Degradation – BB

B. Kinnie/S. Holloway/PVT Team
B. Kinnie/R. Wepler
D. Oboza
D. Oboza
T. Gwazdek/P. Cvetkovski/J. Rezac
M. Morton

From: Oboza, Doran (D.)
Sent: Monday, April 22, 2002 1:29 PM
To: Agarwal, Apoorva (A.); Banks, Nemline (N.B.); Caryea, Kevin (K.W.); Cvetkovski, Peter (P.); Devenport, Marty (M.F.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Bradley (B.A.); Gwozdek, Tom (T.M.); Iwaniczyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Lesia (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razaee, John (J.H.); Salleck, Beth (B.); Stearns, Pamm (P.V.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sorjaa (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamel (K.); Ajulufoh, Bert (B.O.); Anderson, Johnny (J.D.); Araszukowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Derryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Brookl, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Caselsa, William (W.C.); Castleman, William (W.G.); Cantilva, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Paliani; Dhaliwal, Dave (D.S.); Duneska, Dennis (D.R.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Demodar (D.M.); Heimetadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahahan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kirnis, Brian (B.W.); Kircall, Isin (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabel, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Malinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rossman, Michael (M.D.); Sammy, Bahman (Benny.); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullera, James (J.K.); Spaniak, Terence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkiwicz, Alexander (A.S.); Tedona, Damian (D.J.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Breedher (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.); Zigler, Brad (B.T.)

Subject: Postponement of Powertrain Team All Hands Meeting

Team,

The all hands meeting scheduled for 4/24/02, was postponed due to Gary Johnson, Powertrain Champion, having to attend an urgent meeting with VO Management.

The PQR is still scheduled for the same time on 4/24/02.

The new All Hands meeting date will be 5/1/02 at 9:30am in the WSAP Chart room. The PQR agenda will remain unchanged. All team members who are part of the Wayne Powertrain VRT are required to attend or send a representative.

Doran Oboza
Powertrain Quality Analyst - Wayne Assembly Plant

EA02-027-G 12712

Phone - 734-467-0604
Pager - 734-296-5439
email - doboza1@ford.com

Subject: Canceled: Powertrain All Hands Meeting - postponed until 6/1/02
Location: Wayne Assembly Chart Room

Start: Wed 4/24/2002 10:00 AM
End: Wed 4/24/2002 11:30 AM
Show Time As: Free

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Oboza, Doran (D.); Agarwal, Apoorva (A.); Banka, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Brady (B.A.); Gwozdek, Tom (T.M.); Ivaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Marton, Michael (M.F.); Matley, Leslie (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Sellaek, Beth (B.); Stearns, Pamm (P.V.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Deryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broaki, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Casales, William (W.C.); Castleman, William (W.G.); Centivive, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhallwal, Dave (B.S.); Dunesko, Dennis (D.R.); Egger, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gambla, Craig (C.R.); Gazdeck, Timothy (T.A.); Garke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Glordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmetadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kircall, Isin (I.G.); Kina, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lortus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Milora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carol (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pulella, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rossman, Michael (M.D.); Samimy, Bahman (Benny.); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullers, James (J.K.); Spaniak, Terence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszewicz, Alexande (A.S.); Tedone, Damian (D.J.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tynell, Larry (L.J.); Vangavotu, Sraedher (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Weplar, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Dean (D.G.); Ziglar, Brad (B.T.)

Optional Attendees: Florence, Jeremy (J.D.); Trombetta, Christopher (C.B.); Stearns, Pamm (P.V.); Deegan, Mike (M.D.); Kunde, Olaf (O.); Egger, Daniel (D.C.); Tedone, Damian (D.J.); Gucciardo, Steve (S.P.); Tobis, Bruce (B.J.); Baum, Joe (J.M.); Colatruglio, Vince (V.E.); Gwozdek, Tom (T.M.); Foust - Smith, Susan (S.L.); Rezaee, John (J.H.); D'Agostino, Antonio (A.)

Importance: High

New Powertrain VRT Champion, Gary Johnson has requested an all hands meeting for this coming Wednesday (4/24/02). All team members are required to attend or send a representative. Those on the PQR

agenda should be prepared to discuss those topics.

Subject: Canceled: Powertrain All Hands Meeting - postponed until 5/1/02
Location: Wayne Assembly Chart Room

Start: Wed 4/24/2002 10:00 AM
End: Wed 4/24/2002 11:30 AM
Show Time As: Free

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Oboza, Doran (D.); Agarwal, Apoorva (A.); Banke, Nermine (N.B.); Coryea, Kevin (K.W.); Cvatkovski, Peter (P.); Davenport, Marty (M.F.); Daegan, Mika (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Glennamore, Armand (A.A.); Gilmour, Bradley (B.A.); Gwozdek, Tom (T.M.); Ivaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Mork; Morton, Michael (M.F.); Motley, Leela (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Pam (P.V.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulfoh, Bart (B.O.); Anderson, Johnny (J.D.); Anzulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Deryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Caetieman, William (W.G.); Centilvre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coets, Richard (R.M.); Colstruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbie Pallani; Dhallwal, Dave (B.S.); Duneske, Dennis (D.R.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Demodar (D.M.); Helmstadter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnia, Brian (B.W.); Kircaii, Iain (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matthews, Gary (G.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Pratul (P.J.); Plesencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pulella, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Rossman, Michael (M.D.); Sammy, Behman (Benny.); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennife (T.C.); Soulliera, James (J.K.); Spaniak, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszklewicz, Alexandre (A.S.); Tedone, Damian (D.J.); Thomas, Ken (K.C.); Torosien, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.L.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker, Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegzyn, Michael (M.J.); Wapler, Ron (R.J.); White, Christopher (C.); Whiteley, Christine (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.); Zigler, Brad (B.T.)

Optional Attendees: Florence, Jeremy (J.D.); Trombetta, Christopher (C.B.); Stearns, Pam (P.V.); Daegan, Mika (M.D.); Kunde, Olaf (O.); Eggert, Daniel (D.C.); Tedone, Damian (D.J.); Gucciardo, Steve (S.P.); Tobis, Bruce (B.J.); Baum, Joe (J.M.); Colstruglio, Vince (V.E.); Gwozdek, Tom (T.M.); Foust - Smith, Susan (S.L.); Rezaee, John (J.H.); D'Agostino, Antonio (A.)

Importance: High

New Powertrain VRT Champion, Gary Johnson has requested an all hands meeting for this coming Wednesday (4/24/02). All team members are required to attend or send a representative. Those on the PQR

agenda should be prepared to discuss those topics.

From: Oboza, Doran (D.)
Sent: Tuesday, April 02, 2002 1:01 PM
To: Banks, Nermine (N.B.); Coyne, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Falls, Stephen (S.W.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Gilmour, Bradley (B.A.); Gwozdek, Tom (T.M.); Ivanlazyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamel (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Anzulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Darryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cesslea, William (W.C.); Castleman, William (W.G.); Centilvre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); Davis, Jerry (J.W.); Debbie Pallani; Dhaliwal, Dave (B.S.); Duneske, Dennis (D.R.); Eggert, Daniel (D.C.); Fashina, Ayodeji (A.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Frelund, Mark (M.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Glennamore, Armand (A.A.); Giles, Anthony (A.T.); Glimmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Ragnald (R.); Gucciaro, Steve (S.P.); Hegde, Damodar (D.M.); Helmsbader, Donald (D.G.); Hettle, Bruce (B.W.); Hořoway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Landzabat, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Motley, Leslie (L.M.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plesencia, David (D.B.); Post-bames, Donna (D.F.); Popenas, Michael (M.J.); Pulela, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Rollin, Anthony (A.D.); Rosman, Michael (M.D.); Samir, Bahman (Benny.); Sands, Roger (R.P.); Schneider, Jeff; Selleck, Beth (B.); Sellers, Gary (G.T.); Saron Sr., Andrew (A.F.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliers, James (J.K.); Spaniak, Terrence (T.E.); Stearns, Pam (P.V.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Torosian, David (D.A.); Tourao, Lyle (L.W.); Tucker, Sherise (S.M.); Tyrrell, Lary (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.)
Subject: Powertrain PQR Agendas



Future
Agendas.doc

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-467-0604

Pager - 734-296-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

WSAP Powertrain PQR Agenda Schedule

Agenda for 4/3/02

Top Powertrain Functional Issues
FACTS Overview
Gas Cap Light On (P0455) - BB
Brake Switch - BB
Early Warranty Update
GQRS Update

B. Kimmie/A. Rollin/PVT Team
B. Kimmie/R. Singley
D. Tedone/C. Whiteley
J. Rezac
D. Oboza
D. Oboza/D. Dhaliwal

Agenda for 4/10/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Electrical Grounds - BB
L72 (Trans Fluid Leaks) Overview
New Warranty Update
Early Warranty Update

B. Kimmie/A. Rollin/PVT Team
G. MacDonald/J. Walsh/A. Rollin
B. Kimmie/R. Singley
T. Gwozdek/P. Cvetkoski/J. Rezac
G. MacDonald
D. Oboza
D. Oboza

Agenda for 4/17/02

Top Powertrain Functional Issues
FACTS Overview
Evap/VMV - BB
VFG Leader Report Outs
Early Warranty

B. Kimmie/A. Rollin/PVT Team
B. Kimmie/R. Singley
K. Caryea/C. Whiteley
VFG Leaders
D. Oboza

Agenda for 4/24/02

Top Powertrain Functional Issues
FACTS Overview
Early Warranty
ATX Shifter - BB
L65 (Eng Oil Leaks)
L85 (Undetermined Eng Leaks)
Roadmap Update

B. Kimmie/A. Rollin/PVT Team
B. Kimmie/R. Singley
D. Oboza
B. Tobin
G. MacDonald
G. MacDonald
D. Oboza

From:
Sent:
To:

Oboza, Doran (D.)
Tuesday, April 02, 2002 12:28 PM
Banke, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Falls, Stephen (S.W.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Gilmour, Brady (B.A.); Gwozdek, Tom (T.M.); Iwaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajukufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Derryle (D.R.); Brian Johnson; Brockets, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Casslea, William (W.C.); Castleman, William (W.G.); Centilvre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colatruglio, Vince (V.E.); Cox, Tom (T.T.); Davis, Jerry (J.W.); Debbie Paliani; Dhallwal, Dave (B.S.); Duneska, Dennis (D.R.); Eggert, Daniel (D.C.); Fashina, Ayodeji (A.); Fika, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Freeland, Mark (M.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giannamora, Armand (A.A.); Gilee, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goutel, Michele (M.A.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmstadter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahahan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardzabal, Sergio (S.); Lizotta, Brian (B.W.); Lortus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Motley, Lesia (L.M.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Pratul (P.J.); Pleasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pulela, Ananth (A.); Purvie, Bruce; Ramey, George (G.); Rollin, Anthony (A.D.); Rosaman, Michael (M.D.); Samimy, Bahman (Benny.); Sands, Roger (R.P.); Schneider, Jeff; Seffack, Beth (B.); Sellers, Gary (G.T.); Seron Sr., Andrew (A.F.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soulliere, James (J.K.); Spaniak, Terrence (T.E.); Stearns, Pam (P.V.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Tarcelan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Breedhar (S.); Vinogradov, Alex (A.); Wafah, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.)
Subject: Powertrain Meeting Minutes



Meeting Minutes
(03_27_02).doc...

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant
Phone - 734-467-0804
Pager - 734-298-5439
email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Oboza, Doran (D.)
Sent: Tuesday, April 02, 2002 12:28 PM
To: Barke, Narmine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Falls, Stephen (S.W.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Gilmour, Brady (B.A.); Gwazdek, Tom (T.M.); Ivaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Tobie, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arzutowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Deryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broaki, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Ceruso, Barry (B.); Cassies, William (W.C.); Castleman, William (W.G.); Centlivre, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Clechanowek, Mark (M.S.); Clugston, Shane (S.A.); Costa, Richard (R.M.); Colaruglio, Vince (V.E.); Cox, Tom (T.T.); Davis, Jerry (J.W.); Debbie Palfani; Dhaliwal, Dave (B.S.); Dunesko, Dennis (D.R.); Eggerl, Daniel (D.C.); Fashina, Ayodeji (A.); Fike, Barbara (B.G.); Fioranca, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Freeland, Mark (M.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giannamore, Armand (A.A.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hogde, Damodar (D.M.); Helmszetter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Harry (H.S.); J. Sowards; Jahahan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabel, Sergio (S.); Lzotte, Brian (B.W.); Lorus, Brett (B.R.); MacDonald, George (G.F.); Madaj Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Motley, Leslie (L.M.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plessencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Pullala, Ananth (A.); Purvie, Bruce; Ramey, George (G.); Rollin, Anthony (A.D.); Rosaman, Michael (M.D.); Samimy, Bahman (Banny.); Sands, Roger (R.P.); Schneider, Jeff; Selleck, Beth (B.); Sellers, Gary (G.T.); Seron Sr., Andrew (A.F.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Soullere, James (J.K.); Spaniak, Terrence (T.E.); Steams, Pamm (P.V.); Stevenson, Ethel (E.E.); Stajov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroeian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanlee (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wilkns, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.)
Subject: Powertrain Meeting Minutes



Meeting Minutes
(03_27_02).doc...

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-467-0604

Pager - 734-296-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

Meeting Minutes – Powertrain PQR

Meeting Date: 3/27/02
 Recorder: Doran Oboza

Topics	Issue	Discussion	Actions/Requests	Responsible	Due By	Next Update
Top Functional Issues – Not Satisfied With	DC Nutrunner for Trans Cooler Lines	<ol style="list-style-type: none"> DC Nutrunner for cooler lines is still not being used 100%. Team is still awaiting all buyoffs from the union. As of Wednesday, the gun was still not in the correct position 		B. Kinnie/ T. Rollin		4/3/02
	Retainer Clip design change for coolant return hose	<ol style="list-style-type: none"> New position retainer clip for coolant return hose The Concern has been written Moving the location of the hole, May timing Need to have the new clip before the sheet metal change 		D. Dhallwal		4/10/02
	Dead Batteries	<ol style="list-style-type: none"> Still getting dead batteries Need to make sure the keys are turned off at GEM programming Need to follow the shut down process on Fridays (Supervisor is to turn off all cars) Team discovered that even if batteries have a green eye, they could be bad. 		A. Rollin		4/3/02
	Main Engine Harness Connections (C90, C91/C92)	<ol style="list-style-type: none"> Still getting C90, C91/C92 not connected 		R. Wepler/J. Palmer		4/3/02
	Coolant Hose Reprocess	<ol style="list-style-type: none"> Operators that install hoses are also activating clamps This is only process on 2 hose locations 	No Failures at CAL line since induction of process change			4/3/02
	Ground Screws	<ol style="list-style-type: none"> Team is still waiting to switch to a more robust ground screw, which is currently used by Wlxom. 		M. Williams		4/3/02

Topics	Issue	Discussion	Actions/Requests	Responsible	Due By	Next Update
	Automatic Trans Detent Issues	<ol style="list-style-type: none"> 1. Shift cable would get trapped during assemble and the operator was pulling to free. 2. IF the operator pulled too hard, the clip that holds the shifter in the correct position would pop out. 3. Operator has been made aware of the issues 4. Team has scheduled a trial using a stiffer shifter position clip 5. A vendor is scheduled to run a trial on 4/4/02 using camera equipment that would take pictures at various stages of assembly and determine if shifter is in the correct position. 6. This equipment could be tied to the line for ISPC. 7. This one day trial will be FREE of charge 8. Team was given the OK To run the trial 		D. Dhaliwal		4/10/02

From: Oboza, Doran (D.)
Sent: Tuesday, March 26, 2002 8:59 AM
To: Banke, Nermine (N.B.); Coryea, Kevin (K.W.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Falls, Stephen (S.W.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Gilmour, Brady (B.A.); Gwozdek, Tom (T.M.); Iwaniszyn, Teri (T.E.); Madrid, David (D.R.); Malt Morin, Norman, Ingrid (I.); Odum, Ika (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winakoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Derryle (D.R.); Brian Johnson; Brockatte, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Centivra, James (J.C.); Cervantes, Eduardo (E.I.); Chris Campbell; Ciechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Cox, Tom (T.T.); Davis, Jerry (J.W.); Debbie Pallari; Dhalwal, Dave (B.S.); Duneske, Dennis (D.R.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Freeland, Mark (M.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Garke, David (D.W.); Giannamore, Armand (A.A.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciaro, Steve (S.P.); Hegde, Damodar (D.M.); Helmsstetter, Donald (D.G.); Hettie, Bruce (B.W.); Holloway, Scott (S.B.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnle, Brian (B.W.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matysiewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carol (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Mofey, Lesia (L.M.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Post-james, Donna (D.F.); Popenas, Michael (M.J.); Pulella, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Rollh, Anthony (A.D.); Rossman, Michael (M.D.); Samimy, Bahman (Bahmy); Sands, Roger (R.P.); Schneider, Jeff; Sellers, Gary (G.T.); Seron Sr., Andrew (A.F.); SGAVIN was deleted 20020310; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tannile (T.C.); Soullers, James (J.K.); Spaniak, Terrence (T.E.); Stearns, Pam (P.V.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Teraszkiewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Torosian, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Wills, Deon (D.G.)

Subject: Powertrain Agendas



Future
Agendas.doc

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-467-0604

Pager - 734-296-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

WSAP Powertrain PQR Agenda Schedule

Agenda for 3/27/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Battery Degradation - BB
Pressure Decay Test for Coolant Leaks
Early Warranty Update

B. Kinnie/a. Rollin/PVT Team
G. MacDonald/J. Walsh/A. Rollin
B. Kinnie/R. Singley
R. Wilkins/M. Morton
J. Florence/C. Trambetta
D. Oboza

Agenda for 4/3/02

Top Powertrain Functional Issues
FACTS Overview
Gas Cap Light On (P0455) - BB
Brake Switch - BB
Early Warranty Update
GQRS Update

B. Kinnie/a. Rollin/PVT Team
B. Kinnie/R. Singley
D. Tedone/C. Whitely
J. Rezaee
D. Oboza
D. Oboza/D. Dhaliwal

Agenda for 4/10/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Electrical Grounds - BB
FATS Issues
New Warranty Update
Early Warranty Update

B. Kinnie/a. Rollin/PVT Team
G. MacDonald/J. Walsh/A. Rollin
B. Kinnie/R. Singley
T. Gwondak/P. Cvetkoski/J. Rezaee
D. Palani/R. Wilkins
D. Oboza
D. Oboza

Agenda for 4/17/02

Top Powertrain Functional Issues
FACTS Overview
ATX Shifter - BB
Evap/VMV - BB
Early Warranty

B. Kinnie/a. Rollin/PVT Team
B. Kinnie/R. Singley
B. Tobis
K. Caryea/C. Whitely
D. Oboza

From: Oboza, Doran (D.)
Sent: Tuesday, March 05, 2002 11:53 AM
To: Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajulufoh, Bart (B.O.); Anderson, Johnny (J.D.); Anszukowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Boatner, Derryle (D.R.); Brian Johnson; Brockette, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassisa, William (W.C.); Castleman, William (W.G.); Centlivre, James (J.C.); Carvantes, Eduardo (E.J.); Chris Campbell; Clechanowski, Mark (M.S.); Clugston, Shane (S.A.); Coate, Richard (R.M.); Colatruccio, Vince (V.E.); Coryea, Kevin (K.W.); Cox, Tom (T.T.); Davis, Jerry (J.W.); Debbie Pallani; Dhaliwal, Dave (B.S.); Duneske, Dennis (D.R.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fluker, James (J.A.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Freeland, Mark (M.); Gemble, Craig (C.R.); Gavin, Steven (S.D.); Gezdeckl, Timothy (T.A.); Gerke, David (D.W.); Gianamore, Armand (A.A.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Damodar (D.M.); Helmsstadter, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (J.S.); Hopkins, Harry (H.S.); J. Sowards; Jahahan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinia, Brian (B.W.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunda, Olaf (O.); Lardizabal, Sergio (S.); Lizotte, Brian (B.W.); Lorus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Marsac, Lance (L.D.); Matyslewicz, Edwin (E.J.); McCowin, Enoch (E.G.); Mihora, Bob (R.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Motley, Lesia (L.M.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Pratul (P.J.); Plasencia, David (D.B.); Post-barnes, Donna (D.F.); Popenas, Michael (M.J.); Puleja, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Rollin, Anthony (A.D.); Roseman, Michael (M.D.); Sammy, Bahman (Benny); Sands, Roger (R.P.); Schneider, Jeff; Sellers, Gary (G.T.); Seron Sr., Andrew (A.F.); Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Terrille (T.C.); Soullere, James (J.K.); Spaniak, Terrence (T.E.); Stearns, Pamm (P.V.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszewicz, Alexandre (A.S.); Thomas, Ken (K.C.); Toroslan, David (D.A.); Touroo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vangavolu, Sraedhar (S.); Vinogradov, Alex (A.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.J.); White, Christopher (C.); Wiatr, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams, Michael (M.T.); Williams, Robert (R.L.); Willis, Deon (D.G.); Banka, Nermine (N.B.); Cvetkovski, Peter (P.); Davenport, Marty (M.F.); Falls, Stephen (B.W.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Gilmour, Brady (B.A.); Gwozdek, Tom (T.M.); Iwaniszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Razaee, John (J.H.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjae (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.)

Subject: Updated Future Agendas - Powertrain

There has been an update to tomorrow morning's agenda



Future
Agendas.doc

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

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Pager - 734-298-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Stove McQueen

ERR2-827-6 12741

WSAP Powertrain PQR Agenda Schedule

Agenda for 3/6/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Early Warranty Update
Roadmap Update
Electrical Grounds - BB

B. Kinnie/G. MacDonald
G. MacDonald/J. Walsh/A. Rollin
B. Kinnie/R. Singley
D. Oboza
D. Oboza
T. Gwazdek/P. Cvetkovski/J. Rezaee

Agenda for 3/13/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Early Warranty Update
New Warranty Data
PT Wiring Overview (R9 vs Field)
ATK-Shifter - BB
EVAP/VMV - BB
Brake Switch - BB

B. Kinnie/G. MacDonald
G. MacDonald/J. Walsh/A. Rollin
B. Kinnie/R. Singley
D. Oboza
D. Oboza
D. Oboza
B. Teble
C. Whiteley/K. Coryea
J. Rezaee

Agenda for 3/20/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Early Warranty Update
VFG Leader Report Out
TRS BB Project
PATS Issues
Battery Update
Speed Sensor

B. Kinnie/G. MacDonald
G. MacDonald/J. Walsh/A. Rollin
B. Kinnie/R. Singley
D. Oboza
VFG Leaders
J. Rezaee
D. Paliami/R. Wilkins
R. Wilkins/M. Morten
B. Ajulufoh

Agenda for 3/27/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Early Warranty Update
Coolant Hose Clamps Update
C90 Connector Update
GQRS Update

B. Kinnie/G. MacDonald
G. MacDonald/J. Walsh/A. Rollin
B. Kinnie/R. Singley
D. Oboza
J. Florence/C. Trambetta
J. Palmer (Lear)
D. Oboza/D. Dhaliwal

Agenda for 4/3/02

Top Powertrain Functional Issues
PT Containment Review
FACTS Overview
Early Warranty Update
VMV Quality Issues
Speed Sensor

B. Kinnie/G. MacDonald
G. MacDonald/J. Walsh/A. Rollin
B. Kinnie/R. Singley
D. Oboza
K. Coryea/Batun
B. Ajulufoh

From: O'Neall, Jim (J.D.)
Sent: Friday, November 22, 2002 1:58 PM
To: Gates, Freeman (F.C.); Hermann, Thomas (T.J.); 'kpark@kavlico.com'
Cc: Freeland, Mark (M.)
Subject: FW: Travel to Kavlico to Review Electrical Schematics for Transient Voltage Improvements

Freeman - please work with Tom Hermann's group and Mark Freeland to review these drawings, once they arrive.
Kyong - thanks.

J. D. O'Neall
Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6839

-----Original Message-----

From: Park, Kyong [mailto:KPark@kavlico.com]
Sent: Friday, November 22, 2002 12:32 PM
To: O'Neall, Jim (J.D.)
Subject: RE: Travel to Kavlico to Review Electrical Schematics for Transient Voltage Improvements

Jim,
I will send drawings to you by FedEx P1.
Kyong

-----Original Message-----

From: O'Neall, Jim (J.D.) [mailto:joneall@ford.com]
Sent: Friday, November 22, 2002 9:29 AM
To: Hubbard, Rick; Park, Kyong
Cc: Gates, Freeman (F.C.)
Subject: Travel to Kavlico to Review Electrical Schematics for Transient Voltage Improvements

It appears that we will not be able to visit Kavlico on Monday, Nov 18th to review the Electrical Schematics for Transient Voltage Improvements. Our EMC expert, Jarek Tracz, is on personal vacation and won't return until Dec 2nd. I would suggest one of the alternatives:

* Is it possible to forward the schematics to Jarek for his review in Dearborn on Dec 2nd and then follow up with a phone conference with Kavlico later that day or Dec 3rd?

* If you do not feel comfortable forwarding the drawings then we will have to delay our visit until the week of Dec 2nd.

Let us know.

J. D. O'Neall
Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6839

From: O'Neill, Jim (J.D.)
Sent: Tuesday, November 12, 2002 7:31 AM
To: 'kpark@kevfico.com'
Cc: Freeland, Mark (M.)
Subject: FW: High TCR Resistors

Info from Mark Freeland.

J. D. O'Neill

Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6838

---Original Message---

From: Freeland, Mark (M.)
Sent: Friday, November 08, 2002 9:27 AM
To: O'Neill, Jim (J.D.); Maurer, James (J.B.); Gotes, Freeman (F.C.)
Cc: Kotwicki, Allan (A.J.); Ailes, Sheran (S.A.)
Subject: High TCR Resistors

Al Kotwicki has identified a potential source for high TCR resistors.
Can you please pass this information on to Dr. Kyong Park:

K-tronics, Inc.
P.O. Box 4388
Bisbee,
AZ 85803

Tel. (520) 432-5388

Sales Representative:

James J. Majewski
Tel (317) 894-1414 and (248) 305-7123
email: jjmajewski@electroncreps.com
Internet: <http://www.electroncreps.com>

K-tronics advertise:

SM Series wire wound resistors Type SMH, power rating 0.5 W, Std. resistances 0.1 - 400 ohms, Tolerance 0.1% to 5%.

Any of our standard resistors can be specified with a special TCR. They have a selection of TCRs to choose from, one of interest is -55 deg. C to 25 deg. C +3700 +/-300, 25 deg. C to 125 deg. C +3800 +/-300.

Package size is 0.21 long, 0.13 wide and 0.11 high.

Thanks Al

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517

ER02-027-G 12708

Dearborn, MI 48121-2053 USA
email: mfrecla1@ford.com
Tel.: (313) 594-7645

ER02-827-G 12781

Freeland, Mark (M.)

From: Plante, Paul (P.G.)
Sent: Friday, April 26, 2002 12:40 PM
To: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.); O'Neill, Jim (J.D.)
Subject: FW: Focus Stall Issue (Inquiry)

FYI, please read, this is important.

-----Original Message-----

From: Renouf, Joe (J.H.)
Sent: Friday, April 26, 2002 8:27 AM
To: Plante, Paul (P.G.)
Cc: Grandy, Linda (A.)
Subject: RE: Focus Stall Issue (Inquiry)

Paul,

Your are correct. The investigation deals with only the FDM and you have told us that your group has not investigated the FDM and the sensor issue is not related to the FDM. Mark was to be a source for details of the sensor question and how it might relate to stalling if that was to be addressed.

Linda, please remove Mark from your list of expected document/data sources.

Thanks.

Joe

-----Original Message-----

From: Plante, Paul (P.G.)
Sent: Thursday, April 25, 2002 3:58 PM
To: Renouf, Joe (J.H.)
Subject: Focus Stall Issue (Inquiry)

Joe, have Linda Grandy remove Mark Freeland from her distribution list for this issue. Mark is on my sensor team, but is not the leader, and is not up on your issue. All requests associated with the sensor should come to me or Jim Maurer. We concluded in our meeting with you that the sensor would NOT be part of this inquiry, correct??

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.cm (CDS ID PPLANTE)

Subject: DPFE circuit changes
Location: Jim O'Neal's office

Start: Thu 10/3/2002 11:00 AM
End: Thu 10/3/2002 12:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: O'Neal, Jim (J.D.); Alles, Sheran (S.A.); Fraeland, Mark (M.); Verner, Carol (C.J.); Gates, Freeman (F.C.)

Moved meeting up by 1/2 hour for Jim O'Neal's schedule.

From: O'Neill, Jim (J.D.)
Sent: Tuesday, September 24, 2002 1:24 PM
To: Freeland, Mark (M.)
Subject: Out of Office AutoReply: Die Latch threshold Testing

I'm out of the office returning on Friday, Sept 27th. Please contact any of my supervisors or Sandra King (sking4) should you need help.

From: O'Neal, Jim (J.D.)
Sent: Thursday, September 19, 2002 3:12 PM
To: Verner, Carol (C.J.)
Cc: Freeland, Mark (M.)
Subject: FW: Windstar Sensor #99

Please provide the info requested by Mark. This is one of two sensors that failed (low I believe) from the Vegas fleet that you inspected shipped back by Kyong.

J. D. O'Neal
Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-8839

—Original Message—

From: Freeland, Mark (M.)
Sent: Thursday, September 19, 2002 3:07 PM
To: O'Neal, Jim (J.D.)
Cc: Akolkar, Shrikant (S.V.)
Subject: Windstar Sensor #99

Jim,

Please forward me all info you have regarding the sensor Shri brought me to test this afternoon. I would like to make sure the document I send you is clear and concise.

Can you provide the following:

VIN #

Mileage accumulated on the sensor.

Date the sensor was removed.

Were there any stored codes in the PCM, all codes are of interest, not just the dPFE codes?

What is the full repair history for this vehicle from the date the sensor was installed until the date it was removed? I suspect that the engine has a misfire history, of some sort.

Do we have Kavlico's parametric test data for the part.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: O'Neall, Jim (J.D.)
Sent: Tuesday, September 10, 2002 1:12 PM
To: Kozewnik, John (J.J.); King, Sandra (S.M.)
Cc: Freeland, Mark (M.); McCoy, James (J.D.)
Subject: FW: Pool Vehicle

John - Please forward the below note to Dbnpool@ford.com this afternoon. Thanks.
Sandra - can you follow up with John's admin (I think her name is Jen) to make sure this happens.

I approve Mark Freeland's use of a pool car while his lease car is being evaluated for Delta PFE EGR sensor issues. He will need a pool car from Sept 11th at 2PM to Sept 13th at 4PM. Thanks

J. D. O'Neall

Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6839

-----Original Message-----

From: Mack, Ed (E.T.)
Sent: Tuesday, September 10, 2002 9:27 AM
To: McCoy, James (J.D.)
Cc: O'Neall, Jim (J.D.); Freeland, Mark (M.)
Subject: RE: Pool Vehicle

Yes, with LL4 approval. Send to Dbnpool@ford.com

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Tuesday, September 10, 2002 9:26 AM
To: Mack, Ed (E.T.)
Cc: O'Neall, Jim (J.D.); Freeland, Mark (M.)
Subject: FW: Pool Vehicle

Ed, Can you provide an answer our question listed below?

Thanks, Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmcocoy1@ford.com

-----Original Message-----

From: Tokarczyk, Jim (J.J.)
Sent: Tuesday, September 10, 2002 9:02 AM
To: McCoy, James (J.D.)
Subject: RE: Pool Vehicle

Need to contact Ed Mack in Vehicle Programs (he controls the pool vehicles).

Thank You

Jim Tokarczyk

Product Development Vehicle Control

phone x76843, fax 23311

OMP 408

Vehicle Services WEB Site

<http://www.dearborn.ford.com/ltppb/PPPBV/VehicleControl/vehiclecontrol.html>

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Tuesday, September 10, 2002 9:00 AM
To: Tokarczyk, Jim (J.J.)
Cc: O'Neil, Jim (J.D.); Freeland, Mark (M.)
Subject: Pool Vehicle

Jim,

We are currently working on a warranty issue and have a vehicle which is exhibiting concerns and needs to be investigated. The vehicle we need to test is a lease vehicle that belongs to an employee, Mark Freeland, here at Ford. Mark has volunteered his vehicle for testing which will take about a week.

Would it be possible to provide a pool vehicle for Mark's use while we test his vehicle? Could you let me know if this is something we can do?

Thanks Jim.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering

Hardware Control Interface Group

V-Engine Engineering

POEB - MD#69 - Rm. D142 - Cube DF186

Phone (313) 33-79690 / Fax (313) 39-04084

E-Mail: jmccoy1@ford.com

From: O'Neal, Jim (J.D.)
Sent: Friday, August 02, 2002 10:03 AM
To: Freeland, Mark (M.)
Subject: Out of Office AutoReply, Powertrain PQR Meeting Minutes and Next Weeks Agenda

I'm on vacation returning to the office on Monday, August 12th. Please contact any of my supervisors or Sandra King (sking4) should you need help.

From: O'Neill, Ann (A.E.)
Sent: Friday, March 01, 2002 5:08 PM
To: Freeland, Mark (M.)
Subject: SRL chemical inventory

Hi, Mark:

Here's the URL:

<http://www.srl.ford.com/frisfty/frlhm4a.htm>

Click on "Information", the link to the inventory is listed there. I don't know how up-to-date it is, but at least it's a place to start...

—Ann

Ann G. O'Neill

Physical & Environmental Sciences Department
Ford Motor Company
Mail Drop 3088/SRL Building
PO Box 2053
Dearborn, MI 48121
Phone: (313) 248-4788
Fax: (313) 322-7044

From: Owens, Karen (K.E.)
Sent: Tuesday, April 02, 2002 9:58 AM
To: Chen, Smith S N (S.)
Cc: Maurer, James (J.B.); Gates, Freeman (F.C.); Fraeland, Mark (M.)
Subject: RE: DPFE EGR Part Concern

Mr., Chen:

I am no longer working on this matter, James Maurer (JMAURER) is the new team leader. I am forwarding your note to him.

Jim:

Please respond to Mr. Chen. Thank you.

Change is Good. Proactivity is Better!

Karen E. Owens

Supervisor

Modular V8/V10 Engine Systems

(off) 313.845.5770

(fax) 313.390.1229

-----Original Message-----

From: schen16 [mailto:schen16@ford.com]
Sent: Wednesday, March 27, 2002 3:25 AM
To: Owens, Karen (K.E.)
Cc: Jack Jao
Subject: DPFE EGR Part Concern

Miss Owens:

How are you, we recently have a special case that DPFE EGR part malfunction and causing engine stalled w/o any warning during driving, this customer is proposed to sue to company if we can not provide a reasonable reason.

Attached file please find the failure mode 2 which is causing engine stall immediately during drive, the failure mode 1 which is other defeat parts data, and we also show the new parts and dura. test part. Please give us a special effort to explain this concern.

Your quick response will be requested and appreciated.

From: Owens, Karen (K.E.)
Sent: Tuesday, April 02, 2002 9:23 AM
To: Chen, Smith S N (S.)
Cc: Jao, Jack (J.); Maurer, James (J.B.); Freeland, Mark (M.); Gates, Freeman (F.C.); Plante, Paul (P.G.)
Subject: RE: DPFE EGR Part Concern

Mr., Chen:

I am no longer working on this matter, James Maurer (JMAURER) is the new team leader. I am forwarding your note to him.

Jim:

Please respond to Mr.. Chen. Thank you.

Change is Good. Proactivity is Better!
Karen E. Owens
Supervisor
Modular V8/V10 Engine Systems
(off) 313.845.5770
(fax) 313.390.1229

—Original Message—

From: schen16 [mailto:schen16@ford.com]
Sent: Wednesday, March 27, 2002 3:25 AM
To: Owens, Karen (K.E.)
Cc: Jack Jao
Subject: DPFE EGR Part Concern

Miss Owens:

How are you, we recently have a special case that DPFE EGR part malfunction and causing engine stalled w/o any warning during driving, this customer is proposed to sue to company if we can not provide a reasonable reason. Attached file please find the failure mode 2 which is causing engine stall immediately during drive, the failure mode 1 which is other defeat parts data, and we also show the new parts and dura. test part. Please give us a special effort to explain this concern.

Your quick response will be requested and appreciated.

From: Owens, Karen (K.E.)
Sent: Monday, March 18, 2002 4:14 PM
To: Freeland, Mark (M.); Hermann, Thomas (T.J.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Verner, Carl (C.J.)
Subject: RE: Motorola EMC Test Plan - Revised

Is someone going to let the plants know about this? FYI, Romeo Engine Plant converted the Econoline over in July, 2001 and F-Series and U222 on today.

Change is Good. Proactivity is Better!

Karen E. Owens

Supervisor

Modular V8/V10 Engine Systems

(off) 313.845.5770

(fax) 313.390.1229

---Original Message---

From: Freeland, Mark (M.)
Sent: Monday, March 18, 2002 11:58 AM
To: Hermann, Thomas (T.J.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Verner, Carl (C.J.); Owens, Karen (K.E.)
Subject: FW: Motorola EMC Test Plan - Revised

Tom,

With regard to the new and improved Kavlico TM sensor (1/7/2002 production) I passed on you're recommendations regarding ES-XW7T-1A278-xx and a hard copy of the Karen Owens, and that is what she was using for the modification to the sensor. With regard to the original release of the sensor I have to refer you to Joe Johnson and Freeman Gates.

Regards

Mark Freeland

---Original Message---

From: Hermann, Thomas (T.J.)
Sent: Wednesday, March 13, 2002 11:20 AM
To: Gates, Freeman (F.C.); Freeland, Mark (M.)
Cc: Maurer, James (J.B.); Minfield, Jeremiah (J.R.)
Subject: FW: Motorola EMC Test Plan - Revised

Freeman/Mark It appears that Motorola is working to a different (subset of) EMC spec then the required ES-XW7T-1A278-xx for electronic components. Given the current delta PFE problems, this seems to leading down a similar path.

WHY IS THE SUPPLIER WORKING TO A DIFFERENT EMC SPECIFICATION?

The spec. called out appears to be a power train specification so **WHY ARE EMC SPECIFICATIONS CALLED OUT IN THAT SPEC?**

At most, a pointer to the complete EMC specification (ES-XW7T-1A278-xx) should be included in the power train specification.

Freeman, you need to straighten this out with your supplier. We will not be approving any test plans unless it meets the ES-XW7T-1A278-xx EMC requirements.

Mark, what requirements did Kavlico have to meet for EMC 's requirements ES-XW7T-1A278-xx or the power train ES-

EMC-927-6 12791

F1AE-9J460-AA?

-----Original Message-----

From: Minifield, Jeremiah (J.R.)
Sent: Tuesday, March 12, 2002 4:37 PM
To: Bronni, Mark (M.J.)
Cc: Gates, Freeman (F.C.); Bensek, Catherine (C.K.); Klomp, Karl (K.R.)
Subject: RE: Motorola EMC Test Plan - Revised

Mark,

- 1 - Fax over frame 10 (X05327). It must have gotten corrupted in the original transmission.
- 2 - I've reviewed your ES and find that it is lacking in the following areas:
 - RI 120, RI 130
 - CI 280A
 - RE 310

If discussions need to take place, so be it. At some point the part must be made compliant with Ford component EMC requirements. I'd like to include our Tech Specialist, Keith Frazier in those discussions.

*Grace and Peace,
Jerry Minifield (jminifia@ford.com),
R&VT EMC Section, Cube 2D102,
MD 5017, Dept T411,
Ph: 313-32-36583, Fax: 313-39-05327*

-----Original Message-----

From: Bronni, Mark (M.J.)
Sent: Monday, March 11, 2002 08:46
To: Minifield, Jeremiah (J.R.)
Cc: Gates, Freeman (F.C.); Bensek, Catherine (C.K.); Klomp, Karl (K.R.)
Subject: Motorola EMC Test Plan - Revised

Jerry,

Here is the test plan which reflects our current requirements in our product ES Spec. (ES-F1AE-9J460-AA). The people you will want to speak to relative to changing this specification are the Motorola Champion in the EGR group - Karl Klomp and the Technical Specialist for the EGR group - Freeman Gates.

As I mentioned in my message to you last week - in order to run our continuous conformance testing for the sensor we will need an approved test plan.

If Ford wishes to include additional tests to our product ES then we will need to sit down and discuss what those elements should be and determine if any design changes would be required in order to meet them. That discussion should take place with yourself, the people I referenced above, as well as specific personnel from my design and manufacturing groups. But for now I would like to move forward with getting a test plan approved which reflects the current specifications. If you want to refer to the document in question (ES-F1AE-9J460-AA) the information relative to EMC is on frame 10 (I have included that frame in this e-mail). Thanks.

<< File: Ford Current Prod EMC Test Plan_StripLine_v2.doc >> << File: ES-F1AE-9J460-AA Frame 10.tif >>

Regards,

Mark Bronni

MOTOROLA - Resident Engineer
Tel: (313) 248-4509; Fax: (313) 390-4084
Pager: (800) 714-8172

From: Panaretos, Christine (C.M.)
Sent: Monday, May 06, 2002 11:10 AM
To: Akins, Mary (M.); Akoikar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Allea, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoake, Pete (P.F.); Bensek, Catherine (C.K.); Bersuder, Les (L.C.); Bissel, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Denes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Fraeland, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hengas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerezl, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neal, Jim (J.D.); Oswald, Greg (G.G.); Panaretos, Christine (C.M.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Pfante, Paul (P.G.); Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Rossi, Roberto (R.A.); Schieding, Kurt (K.J.); Shora, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Vemar, Carol (C.J.); White-Johnson, Patrice (P.); Williamson, Richard (E.)
Subject: New Project Management Analyst - Kavlico dPFE Sensor

Amy Poma will be replacing me, effective immediately, as a PMA for the Kavlico dPFE Sensor project. Her CDS I.D. is APOMA2, and she is located here at POEE in CQ156. She can be reached at 313-39-08848.

It's been a pleasure working with all of you. I will be Amy's back-up for any issues that may arise, or for meeting attendance, so I'm sure I'll probably be seeing all of you again some time or another.

If you have any questions, please contact me. Have a good day!

Chris Panaretos

Account Manager, Project Solutions at Ford Powertrain
POEE Building, Cube CG-071
(313) 24-89337; Fax: (313) 32-29285
cpanaret@ford.com

Subject: FW: Kavlico dPFE Sensor Core Team Meeting
Location: POEE D1186 (War Room in FMEI Dept.)

Start: Tue 5/7/2002 1:00 PM
End: Tue 5/7/2002 2:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Tuesday from 1:00 PM to 2:30 PM

Meeting Status: Not yet responded

Required Attendees: Panaretos, Christine (C.M.); Carter, Roacoe (R.O.)

---Original Appointment---

From: Panaretos, Christine (C.M.)
Sent: Wednesday, December 19, 2001 10:03 AM
To: Panaretos, Christine (C.M.); Aldns, Mary (M.); Awad, Mahmoud (M.I.); Ayers, Don; Freland, Mark (M.); Gates, Freeman (F.C.); Owens, Karen (K.E.); Panaretos, Christine (C.M.); Planta, Paul (P.G.); Schladng, Kurt (K.J.); Smythe, Joseph (J.M.); Verner, Carol (C.J.)
Subject: Kavlico dPFE Sensor Core Team Meeting
When: Tuesday, May 07, 2002 1:00 PM-2:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: POEE D1186 (War Room in FMEI Dept.)

These are the ongoing meetings for the Kavlico TM dPFE sensor. The Tuesday meetings will last 1.5 hours. We will have a teleconference with Kavlico and any other team members who are unable to attend but still want to participate. The telephone number to the conference room and passcode will be sent in another notice.

Subject: DPFE Sensor Stalls Issue Review
Location: DI-196 (FMEI War Room)

Start: Thu 5/2/2002 1:00 PM
End: Thu 5/2/2002 3:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Panaratos, Christine (C.M.); 'jjahshan@visteon.com'; Schiading, Kurt (K.J.); Awad, Mahmoud (M.I.); Plants, Paul (P.G.); Gates, Freeman (F.C.); Freeland, Mark (M.); Maurer, James (J.B.); Pery, Brian (B.J.); 'apome2@visteon.com'

Team, we need 2 hours to discuss this subject. The only time all are available is 5/2 during our normal team meeting. All are required to have a meaningful discussion. **BRING ALL DATA ASSOCIATED WITH STALLS FOR DISCUSSION.** Filmsies are better than paper to save copies.

Agenda:

- 1) Overview to set agenda. Brainstorm data and issues from V Engine, PCSE, and Quality Office.
- 2) Review data from each attendee and discuss with team.
- 3) Establish:
 - A) Can stalls theoretically happen?
 - B) What happens when a stall occurs?
 - C) What is the rate of stall compared to overall sensor warranty.
 - D) What components affect stalls (i.e. sensor, PCM, etc.)
- 4) Consensus on stall issues. Establish statement for 14D.
- 5) Next steps.

Subject: Acids/concentrations and Test Vehicles
Location: POEE-D138 (16)

Start: Wed 5/1/2002 11:00 AM
End: Wed 5/1/2002 12:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Panerolos, Christine (C.M.); Maurer, James (J.B.); Gates, Freeman (F.G.); Freeland, Mark (M.); Pianta, Paul (P.G.); McCoy Jr., Joe (J.); 'bdavies@kavilco.com'; 'kpark@kavilco.com'

Please plan on attending a follow up meeting to the April 30 Issues meeting to discuss Acids and Test Vehicles.

J. McCoy only required to attend for the Test Vehicle discussion which will be from 12:00-12:30.

I apologize for any inconvenience for this was the only 1.5 hr. time block available on everyone's schedule for tomorrow.

I will advise Kyong Park and Brady Davies date and time.

From: Panaretos, Christine (C.M.)
Sent: Monday, April 08, 2002 12:21 PM
To: Freeland, Mark (M.)
Subject: RE: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor

The one for Wednesday has been rescheduled to today. Sorry for the confusion.

Chris Panaretos

Account Manager, Project Solutions at Ford Powertrain
POEE Building, Cube CG-071
(313) 24-89337; Fax: (313) 32-29265
cpanaret@ford.com

—Original Message—

From: Freeland, Mark (M.)
Sent: Monday, April 08, 2002 12:18 PM
To: Panaretos, Christine (C.M.)
Subject: RE: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor

Chris,

I replied to two notes regarding meetings. I can attend today's but not the one for Wednesday afternoon.

See you at 2:00 pm today.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

—Original Message—

From: Panaretos, Christine (C.M.)
Sent: Monday, April 08, 2002 9:34 AM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: RE: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor

Mark - It is imperative that you attend this meeting today. You and Robert Rossi are key to settling some issues. Please contact Jim Maurer to address any pressing need to cancel.

Chris Panaretos

Account Manager, Project Solutions at Ford Powertrain
POEE Building, Cube CG-071
(313) 24-89337; Fax: (313) 32-29265
cpanaret@ford.com

—Original Appointment—

From: Freeland, Mark (M.)
Sent: Monday, April 08, 2002 8:58 AM

ERS2-027-G 12987

To: Panaretos, Christine (C.M.)
Subject: Declined: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor
When: Monday, April 08, 2002 2:00 PM-3:30 PM (GMT-05:00) Eastern Time (US & Canada).
Where: POEE FAO video POECB072

From: Panaretos, Christine (C.M.)
Sent: Monday, April 08, 2002 9:34 AM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: RE: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor

Mark - it is imperative that you attend this meeting today. You and Robert Rossi are key to settling some issues. Please contact Jim Maurer to address any pressing need to cancel.

Chris Panaretos

Account Manager, Project Solutions at Ford Powertrain
POEE Building, Cube CG-071
(313) 24-89337; Fax: (313) 32-29285
cpanaret@ford.com

—Original Appointment—

From: Freeland, Mark (M.)
Sent: Monday, April 08, 2002 8:58 AM
To: Panaretos, Christine (C.M.)
Subject: Declined: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor
Where: Monday, April 08, 2002 2:00 PM-3:30 PM (GMT-05:00) Eastern Time (US & Canada).
Where: POEE FAO video POEBC072

From: Panaretos, Christine (C.M.)
Sent: Friday, April 05, 2002 4:35 PM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoaka, Pete (P.F.); Banek, Catherine (C.K.); Bersuder, Lee (L.C.); Bissl, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hangaas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerazi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Oswald, Greg (G.G.); Panaretos, Christine (C.M.); Park, Kyong; Pascany, Ken (K.M.); Pany, Brian (B.J.); Plante, Paul (P.G.); Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Rosal, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Smythe, Joseph (J.M.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); White-Johnson, Patricia (P.); Williamson, Richard (E.)
Subject: Preliminary Agenda for 4/9 Kavlico dPFE Sensor Core Team

Attached please find the preliminary agenda for the Kavlico dPFE Sensor Core team. The issues associated with this meeting will be published on Monday, April 8. Please note that if you are a presenter on this agenda, you must attend the meeting, or plan on teleconferencing in.

If you have any questions, please contact me, Jim Maurer, or Paul Plante.



Kavlico Meeting
Agenda_040902....

Chris Panaretos

Account Manager, Project Solutions at Ford Powertrain
POEE Building, Cube CG-071
(313) 24-89337; Fax: (313) 32-29266
cpanaret@ford.com



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: Establish and implement corrective and containment actions for Kavlico TM dPFB Sensor

Meeting Logistics

Subject: Kavlico TM dPFB Sensor Core Team
 Dates: April 9, 2002
 Time: 1-2:30 p.m.
 Location: POBE, DI-196 (FMHI War Room)
 Called By: Jim Maurer, Team Leader: (313) 39-03672
 Next Meeting (s): April 11, 2002, Core Team Meeting
 April 16, 2002

Conference Call-in Number(s): 9-1-954-1149 (inside Ford); 847-619-6158 (outside) Passcode: 6881436#
 Kavlico Fax: 805-531-6574

Core Team Participants

<u>Black Belts</u>	<u>Kavlico</u>	<u>V-Engine</u>	<u>Quality Office</u>	<u>EESB</u>	<u>Purchasing</u>
Mark Froeland	Mary Atkins	Jim O'Neill	Mahmoud Awad	Sheran Alles	Chris Nielsen
Shri Akolkar	Don Ayers	Freeman Gates		Robert Rossi	Bill McCarty
Jon Janda		Chris Panaretos			Patrice White-
		Paul Plante		<u>PCSE</u>	Johnson
<u>Team Leader</u>		Carol Verner		Ken Arnold	
Jim Maurer				Brian Perry	

Meeting Agenda - 4/9/02

<u>Order of Agenda Items</u>	<u>Corr. Issue #</u>	<u>Person(s) Responsible</u>	<u>Time Allocated</u>
1. Introductions		All	5 minutes
2. Service Part Volume Projections - Kit vs. One part	I16, A2	John Shore	10 minutes
3. Update on Wiring Harness Root Causes / findings	various	Sheran Alles, Robert Rossi	15 minutes
4. STA Update	I20	Patrice White-Johnson	10 minutes
5. Update on FRL Scientific Evaluation - progress to date	I3, A2	Mark Froeland	10 minutes
6. GQRS Data on 21 platforms - Status	I3, A9	Jon Janda, Mahmoud Awad	10 minutes
7. Outside Lab - Non disclosure agreement, work plan, objectives	I5, A5	Kyong Park Freeman Gates	10 minutes
8. Update on Body and Assembly plant failures	I3, A3	Terry Tamashiro	10 minutes
9. Walk-ins		All	10 minutes
10. Next Meeting Agenda Items		All	10 minutes

<u>Proposed Next Meeting Agenda 4/11/02</u>	<u>Person(s) Responsible</u>	<u>Time Estimated</u>
PCM solder crack issue (J1 connector) & current draw to stall the vehicle	John Jashen	10 minutes

Notes

Bring handouts (paper copies) for all presentations
 Provide electronic copies of presentations to CPANARET (no later than 1 hour prior to the meeting)
 Please be on time as we have a full agenda

Jim Maurer/cp: 6/5/2003
 Kavlico dPFB Sensor Core Team

Subject: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor
Location: POEE FAO video POECB072

Start: Mon 4/8/2002 2:00 PM
End: Mon 4/8/2002 3:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Panaretos, Christine (C.M.); POEE FAO video POECB072; Hermann, Thomas (T.J.); Alles, Sheran (S.A.); Rossi, Roberto (R.A.); Freeland, Mark (M.); Maurer, James (J.B.); Planta, Paul (P.G.); Gatas, Freeman (F.C.); 'dayers@kavlico.com'; 'bdavies@kavlico.com'; 'kpark@kavlico.com'; O'Neil, Jim (J.D.)

This is a separate meeting to discuss Electrical Wiring Testing for the dPFE sensor. This will be a teleconference with Kavlico. You may use the same connection number used for the team meetings.

If you have any questions, please contact me.

Chris Panaretos
(313) 24-69337
cpanaret@ford.com

Subject: Updated: Electrical Wiring Testing for Kavlico dPFE Sensor
Location: POEE FAO video POECB072

Start: Mon 4/8/2002 2:00 PM
End: Mon 4/8/2002 3:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Panaretos, Christine (C.M.); POEE FAO video POECB072; Hermann, Thomas (T.J.); Ailes, Sheran (S.A.); Ross, Roberto (R.A.); Freeland, Mark (M.); Maurer, James (J.B.); Pianta, Paul (P.G.); Gates, Freeman (F.C.); 'bdavies@kavlico.com'; 'bdavies@kavlico.com'; 'kpark@kavlico.com'; O'Neil, Jim (J.D.)

This is a separate meeting to discuss Electrical Wiring Testing for the dPFE sensor. This will be a teleconference with Kavlico. You may use the same connection number used for the team meetings.

If you have any questions, please contact me.

Chris Panaretos
(313) 24-89337
cpanaret@ford.com

From: Panaretos, Christine (C.M.)
Sent: Thursday, March 28, 2002 10:11 AM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoske, Pete (P.F.); Bansok, Catherine (C.K.); Bersuder, Lee (L.C.); Bissl, Gerry (G.); Bronni, Mark (M.J.); Danas, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hengas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerazi, Karen (K.J.); Koszawmlk, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Oswalt, Greg (G.G.); Panaretos, Christine (C.M.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Popoff, Daniel (D.M.); Raquepau, Aiden (A.P.); Rossal, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Smythe, Joseph (J.M.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); White-Johnson, Patrice (P.); Williamson, Richard (E.)
Subject: 3/28 Kavlico dPFE Sensor Core Team Meeting Agenda

Attached please find the meeting agenda for today's Kavlico dPFE Sensor Core team meeting. We will not be having a meeting on Tuesday, April 2. Core team members and person(s) on the agenda are required to attend, or if you have a "need to know". I will be distributing a copy of the open issues at the meeting.

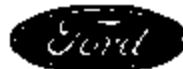
If you have any questions, please contact me.



Kavlico Meeting
Agenda_032802....

Chris Panaretos

Account Manager, Project Solutions at Ford Powertrain
POEE Building, Cube CG-071
(313) 24-89337; Fax: (313) 32-29265
cpanaret@ford.com



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: Establish and implement corrective and containment actions for Kavlico TM dPFE Sensor

Meeting Logistics

Subject: Kavlico TM dPFE Sensor Core Team
 Dates: March 28, 2002
 Time: 1-2:30 p.m.
 Location: POEE, DI-196 (FMEI War Room)
 Called By: Jim Maurer, Team Leader: (313) 39-03672
 Next Meeting (s): April 4, 2002, Core Team Meeting

Conference Call-in Number(s): 9-1-954-1149 (inside Ford); 847-619-6158 (outside) Passcode: 6881436#
 Kavlico Fax: 805-531-6574

Core Team Participants

Black Belts	Kavlico	V-Engins	Quality Office	HESE	Purchasing
Mark Freeland	Mary Akins	Jim O'Neill	Mahmoud Awad	Sheran Alles	Chris Nielsen
Shri Akotkar	Don Ayers	Freeman Gates		Robert Rossi	Bill McCarty
Jon Janda		Chris Panaretos			Patrice White-Johnson
		Paul Plante		PCSE	
Team Leader		Carol Verner		Ken Arnold	
Jim Maurer				Brian Perry	

Meeting Agenda - 3/28/02

<u>Order of Agenda Items</u>	<u>Corr. Issue #</u>	<u>Person(s) Responsible</u>	<u>Time Allocated</u>
1. Introductions		All	5 minutes
2. Results / Comments from Technical Review	11, A4	Paul Plante	10 minutes
3. Discussion w/Kavlico of Outside Sources to use for analysis	15, A5	Jim Maurer	10 minutes
4. Discussion of PCM J1 Connector warranty issues	13, A5	John Jahshan	10 minutes
5. Update on obtaining Fleet Vehicles	16, A4	Carol Verner	10 minutes
6. Review of High-Priority open issues	Various	All	25 minutes
7. Walk-in's		All	15 minutes
8. Next Agenda Items / Discussion		All	10 minutes

<u>Proposed Next Meeting Agenda 4/4/02</u>	<u>Person(s) Responsible</u>	<u>Time Estimated</u>

Notes

Bring handouts (paper copies) for all presentations
 Provide electronic copies of presentations to CPANARET (no later than 1 hour prior to the meeting)
 Please be on time as we have a full agenda

Jim Maurer/op: 6/5/2003
 Kavlico dPFE Sensor Core Team

E882-827-G 12825

From: Panaretos, Christine (C.M.)
Sent: Tuesday, March 28, 2002 11:52 AM
To: Akina, Mary (M.); Ales, Sheran (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Freeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); McCarty, Bill (W.D.); Nielean, Christian (C.A.); O'Neill, Jim (J.D.); Panaretos, Christine (C.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Rossal, Roberto (R.A.); Shore, John (J.); Smythe, Joseph (J.M.)
Subject: Agenda for Today's Kavlico dPFE Core Team
Importance: High

Sorry for the late notice....attached is the agenda for today's meeting. I will bring a copy of the issues deck for review at the meeting. Kavlico - if you need a copy, please let Mary know and we will fax to you.



Kavlico Meeting
Agenda_032602...

Chris Panaretos

Account Manager, Project Solutions at Ford Powertrain
POEE Building, Cube CG-071
(313) 24-89337; Fax: (313) 32-28265
cpanerat@ford.com



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: Establish and implement corrective and containment actions for Kavlico TM dPFE Sensor

Meeting Logistics

Subject: Kavlico TM dPFE Sensor Core Team
Dates: March 26, 2002
Time: 1-2:30 p.m.
Location: POEE, DI-196 (PMER War Room)
Called By: Jim Maurer, Team Leader: (313) 39-03672
Next Meeting (s): March 28, 2002, Core Team Meeting
 April 2, 2002, Core Team Meeting

Conference Call-In Number(s): 9-1-954-1149 (inside Ford); 847-619-6158 (outside) Passcode: 6881436#
 Kavlico Fax: 805-531-6574

Core Team Participants

Black Belts	Kavlico	V-Engine	Quality Office	BESB	Purchasing
Mark Freeland	Mary Akins	Jim O'Neill	Mahmoud Awad	Sharan Alles	Chris Nielsen
Shri Akolkar	Don Ayers	Frestman Gates		Robert Rossi	Bill McCarty
Jon Janda		Chris Panaretos			Patrice White-Johnson
		Paul Plante		PCSE	
Team Leader		Carol Verner		Ken Arnold	
Jim Maurer				Brian Perry	

Meeting Agenda -- 3/26/02

<u>Order of Agenda Items</u>	<u>Core Issue #</u>	<u>Person(s) Responsible</u>	<u>Time Allocated</u>
1. Introductions		All	5 minutes
2. Results / Comments from Technical Review	I1, A4	Jim Maurer, Paul Plante	10 minutes
3. Discussion of Outside Sources to use for analysis	I5, A5	Jim Maurer	10 minutes
4. Update from BESB on testing / establish date when findings available.	Various	R. Rossi, S. Alles	20 minutes
5. Review of High-Priority open issues	Various	All	15 minutes
6. Walk-in's		All	15 minutes
7. Next Agenda Items / Discussion		All	10 minutes

<u>Proposed Next Meeting Agenda 3/28/02</u>	<u>Person(s) Responsible</u>	<u>Time Estimated</u>

Notes

Bring handouts (paper copies) for all presentations
 Provide electronic copies of presentations to CPANARET (no later than 1 hour prior to the meeting)
 Please be on time as we have a full agenda

Jim Maurer/cp: 6/5/2003
 Kavlico dPFB Sensor Core Team

From: Panaretos, Christine (C.M.)
Sent: Thursday, March 21, 2002 9:58 AM
To: Freeland, Mark (M.)
Subject: RE: Kavlico dPFE Sensor Core Team 3/21

Should this go to everyone or just the core team?

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford FOEE, Components "B"
(313) 24-89337
Fax: (313) 32-29265

---Original Message---

From: Freeland, Mark (M.)
Sent: Thursday, March 21, 2002 9:56 AM
To: Panaretos, Christine (C.M.)
Subject: RE: Kavlico dPFE Sensor Core Team 3/21

Chris,

Could you please also circulate the attached Focus Warranty Data files to the team members. They should not be needed for discussion at the meeting, but everyone should look at them for their own info.

Thanks

Mark << File: 20020320 Warranty data for 2L Zetec Focus All No Starts.xls >> << File: 20020320 Warranty data for 2L Zetec Focus All Stalls.xls >> << File: 20020320 Warranty data for 2L Zetec Focus dPFE No Starts.xls >> << File: 20020320 Warranty data for 2L Zetec Focus dPFE Stalls.xls >> << File: 20020320 Warranty data for 2L Zetec Focus dPFE.xls >>

From: Panaretos, Christine (C.M.)
Sent: Wednesday, March 20, 2002 1:18 PM
To: Freeland, Mark (M.)
Subject: RE: 14d 3.A.I & II ATTACHMENT

Mark,
I did not receive anything from you. Please try to resend. Thanks for responding!

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-29285

---Original Message---

From: Freeland, Mark (M.)
Sent: Wednesday, March 20, 2002 11:25 AM
To: Panaretos, Christine (C.M.)
Subject: FW: 14d 3.A.I & II ATTACHMENT

Chris,

Did you get the attachments on the transient voltage test results? The message below suggests you did not!

Mark

---Original Message---

From: System Administrator
Sent: Tuesday, March 19, 2002 1:05 PM
To: Panaretos, Christine (C.M.)
Subject: Undeliverable: 14d 3.A.I & II ATTACHMENT

Your message did not reach some or all of the intended recipients.

Subject: 14d 3.A.I & II ATTACHMENT
Sent: 3/19/02 1:05 PM

The following recipient(s) could not be reached:

Panaretos, Christine (C.M.) on 3/19/02 1:05 PM
No transport provider was available for delivery to this recipient.

From: Panaretos, Christine (C.M.)
Sent: Wednesday, March 13, 2002 4:16 PM
To: Freeland, Mark (M.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

No problem. We'll carry on with other items.....enjoy the weather this evening!

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-29265

—Original Message—

From: Freeland, Mark (M.)
Sent: Wednesday, March 13, 2002 4:14 PM
To: Panaretos, Christine (C.M.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

Christine,

I will not be at the offsite until after 9:00 am.

Mark

From: Panaretos, Christine (C.M.)
Sent: Wednesday, March 13, 2002 1:01 PM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Ales, Sheran (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Danes, Adam (A.V.); Fraeland, Mark (M.); Gates, Freeman (F.C.); Jahshan, John; Janda, Jon (J.M.); Maurer, James (J.B.); Nelson, Christian (C.A.); O'Neill, Jim (J.D.); Panaretos, Christine (C.M.); Perry, Brian (B.J.); Plants, Paul (P.G.); Rossi, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Smythe, Joseph (J.M.); Verner, Carol (C.J.)
Subject: Revised Agenda for 3/14 Kavlico Technical Offsite

Attached please find the revised agenda for the offsite meeting tomorrow. As a reminder, this will be held at the Fairlane Training and Development Center, Room 145, South building. Lunch will no longer be provided, but the cafeteria will be open if you would like to purchase one. There will be an in-focus projector available for presentation purposes.

If you have any questions, please feel free to contact me. See you tomorrow at 8:30!



Kavlico dPFE Tech
Offsite Agen...

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-29265

Kavlico TM dPFE Sensor
Technical Offsite Meeting
FTDC - Room
March 14, 2002
8:30-5:00

Agenda

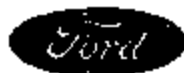
Discussion of UPAD - Results from FRL	<i>Mark Freeland</i>	1 hour
Break		10 minutes
Summary of Investigations to Date: Corrosion Analysis	<i>Freeman Gates</i>	1 hour
Analysis from Kavlico Returns	<i>Loay Saliaeh, Mahmoud Awad</i>	.5 hour
Discussion of Outside help and Management Support	<i>Jim O'Neill</i>	.5 hour
Break for Lunch - FTDC Cafeteria		50 minutes
Is/Is Not and Fishbone	<i>Shri Akolkar, Jon Janda, Team</i>	1.5 hours
Break		10 minutes
Cause/Effect Analysis	<i>Team</i>	2.5 hours
Final Summary		.5 hours

From: Panaretos, Christine (C.M.)
Sent: Tuesday, March 12, 2002 12:04 PM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Abrecht, Guenter (G.K.); Ailes, Sheran (S.A.); Arnold, Kenneth (K.M.); Auler, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoska, Pete (P.F.); Banaek, Catherine (C.K.); Bersuder, Lee (L.C.); Bliss, Gerry (G.); Bronn, Mark (M.J.); Danes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Frelund, Mark (M.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hargas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kapp, Dan (Daniel R.); Kerzi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muler, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neal, Jim (J.D.); Oswald, Greg (G.G.); Panaretos, Christine (C.M.); Park, Kyong; Pascary, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Popoff, Daniel (D.M.); Raquepau, Aiden (A.P.); Rosal, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Smytha, Joseph (J.M.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); White-johnson, Patrice (P.); Williamson, Richard (E.); Wilson, Cory (C.A.)
Subject: Meeting Agenda for 3/12/02- Kavlico



Kavlico Meeting
Agenda_031202....

Chris Panaretos
Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-29265



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: Establish and implement corrective and containment actions for Kavlico TM dPFE Sensor

Meeting Logistics

Subject: Kavlico TM dPFE Sensor Core Team
 Dates: March 12, 2002
 Time: 1-2:30 p.m.
 Location: POEB, DI-196 (FMBI War Room)
 Called By: Jim Maurer, Team Leader: (313) 39-03672
 Next Meeting (s): March 14, 2002, Technical Offsite #2

Conference Call-in Number(s): 9-1-954-1149 (inside Ford); 847-619-6158 (outside) Passcode: 6881436#
 Kavlico Fax: 805-531-6574

Core Team Participants

<u>Black Belts</u>	<u>Kavlico</u>	<u>Y-Engine</u>	<u>Quality Office</u>	<u>EESE</u>	<u>Purchasing</u>
Mark Freeland	Mary Akira	Jim O'Neill	Mahtnoud Awad	Shoran Allos	Joe Smyth
Shri Akolkar	Don Ayers	Frestman Gates	Kurt Schieding	Robert Rossi	Chris Nielsen
Jon Janda		Chris Panaretos			
		Paul Plante		<u>PCSE</u>	
<u>Team Leader</u>		Carol Verner		Ken Arnold	
Jim Maurer				Brian Perry	

Meeting Agenda - 3/12/02

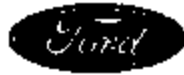
<u>Order of Agenda Items</u>	<u>Oper. Issue #</u>	<u>Person(s) Responsible</u>	<u>Time Allocated</u>
1. Introductions		All	5 minutes
2. Kavlico needs to verify what Pirana-etch does to aluminum.		Kyong Park	10 minutes
3. Status on Norfolk and St. Thomas returns.		Terry T	10 minutes
4. Complete teardown analysis for five platforms including Focus		Terry T	10 minutes
5. Capacity for service.		Chris Nielsen	10 minutes
6. Update on Vehicle Electrical Testing	I6, A1 & I12, A6	R. Rossi	20 minutes
7. Compare failure mechanism of the current production acid tested parts vs. warranty UPAD parts.		Kyong Park	15 minutes
8. Affect of the gold process on warranty		Kyong Park	15 minutes
9. Update on fleet vehicles		Carol Verner	10 minutes
10. Walk-in's		All	10 minutes
11. Next meeting (3/19) agenda		All	5 minutes

<u>Proposed Next Meeting Agenda 3/19/02</u>	<u>Person(s) Responsible</u>	<u>Time Estimated</u>

Notes

Bring handouts (paper copies) for all presentations
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 Please be on time as we have a full agenda

Jan Maurer/cp: 6/5/2003
 Kavlico dPFB Sensor Core Team



E982-627-G 1384

**Jim Maurer/ep: 6/5/2003
Kavlico dPFH Sensor Core Team**

From: Panaretos, Christine (C.M.)
Sent: Wednesday, March 20, 2002 1:16 PM
To: Freeland, Mark (M.)
Subject: RE: 14d 3.A.I & II ATTACHMENT

Mark,
I did not receive anything from you. Please try to resend. Thanks for responding!

Chris Panaretos
Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-29285

-----Original Message-----

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To: Panaretos, Christine (C.M.)
Subject: FW: 14d 3.A.I & II ATTACHMENT

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To: Freeland, Mark (M.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

No problem. We'll carry on with other items.....enjoy the weather this evening!

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-20265

-----Original Message-----

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Sent: Wednesday, March 13, 2002 4:14 PM
To: Panaretos, Christine (C.M.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

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Mark

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Sent: Wednesday, March 13, 2002 1:01 PM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Danes, Adam (A.V.); Freeland, Mark (M.); Gatas, Freeman (F.C.); Jahahan, John; Janda, Jon (J.M.); Maurer, James (J.B.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Panaretos, Christine (C.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Rossi, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Smythe, Joseph (J.M.); Verner, Carol (C.J.)
Subject: Revised Agenda for 3/14 Kavlco Technical Offsite

Attached please find the revised agenda for the offsite meeting tomorrow. As a reminder, this will be held at the Fairlane Training and Development Center, Room 145, South building. Lunch will no longer be provided, but the cafeteria will be open if you would like to purchase one. There will be an In-focus projector available for presentation purposes.

If you have any questions, please feel free to contact me. See you tomorrow at 8:30!



Kavlco dPPE Tech
Offsite Agan...

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-29265

**Kavlico TM dPFE Sensor
Technical Offsite Meeting
FTDC – Room
March 14, 2002
8:30-5:00**

Agenda

Discussion of UPAD – Results from FRL	<i>Mark Freeland</i>	1 hour
Break		10 minutes
Summary of Investigations to Date: Corrosion Analysis	<i>Freeman Gates</i>	1 hour
Analysis from Kavlico Returns	<i>Loay Saliieh, Mahmoud Awad</i>	.5 hour
Discussion of Outside help and Management Support	<i>Jim O'Neill</i>	.5 hour
Break for Lunch – FTDC Cafeteria		50 minutes
Is/Is Not and Fishbone	<i>Shri Akolkar, Jon Janda, Team</i>	1.5 hours
Break		10 minutes
Cause/Effect Analysis	<i>Team</i>	2.5 hours
Final Summary		.5 hours

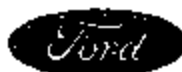
From: Panaretos, Christine (C.M.)
Sent: Tuesday, March 12, 2002 12:04 PM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alias, Sharan (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoake, Pete (P.F.); Banek, Catherine (C.K.); Bersuder, Lee (L.C.); Blasl, Gerry (G.); Bronni, Mark (M.J.); Danas, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Gatas, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hansas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kapp, Dan (Danief R.); Kerazi, Karen (K.J.); Kozewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Oswald, Greg (G.G.); Panaretos, Christine (C.M.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Popoff, Danief (D.M.); Raquepau, Alden (A.P.); Rossi, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Smythe, Joseph (J.M.); Temeahiro, Terry; Trujillo, Thomas (T.G.); Vemer, Carol (C.J.); White-Johnson, Paicke (P.); Williamson, Richard (E.); Wilson, Cary (C.A.)
Subject: Meeting Agenda for 3/12/02- Kavlico



Kavlico Meeting
Agenda_031202...

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax (313) 32-29265



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: **Establish and implement corrective and containment actions for Kavlico TM dPFE Sensor**

Meeting Logistics

Subject: Kavlico TM dPFE Sensor Core Team
Dates: March 12, 2002
Time: 1-2:30 p.m.
Location: POEB, DI-196 (FMBI War Room)
Called By: Jim Maurer, Team Leader: (313) 39-03672
Next Meeting (s): March 14, 2002, Technical Offsite #2

Conference Call-In Number(s): 9-1-954-1149 (inside Ford); 847-619-6158 (outside) Passcode: 6881436#
 Kavlico Fax: 805-531-6574

Core Team Participants

Black Belts	Kavlico	V-Engine	Quality Office	RESE	Purchasing
Mark Freedland	Mary Akins	Jim O'Neill	Mahmoud Awad	Sharan Alles	Joe Smythe
Shri Akolkar	Don Ayers	Freeman Gates	Kurt Schieding	Robert Rossi	Chris Nielsen
Jon Janda		Chris Panaretos			
		Paul Plank		PCSE	
Team Leader		Carol Verner		Ken Arnold	
Jim Maurer				Brian Perry	

Meeting Agenda - 3/12/02

<u>Order of Agenda Items</u>	<u>Cont. Issue #</u>	<u>Person(s) Responsible</u>	<u>Time Allocated</u>
1. Introductions		All	5 minutes
2. Kavlico needs to verify what Pirana-etch does to aluminum.		Kyong Park	10 minutes
3. Status on Norfolk and St. Thomas returns.		Terry T	10 minutes
4. Complete teardown analysis for five platforms including Focus		Terry T	10 minutes
5. Capacity for service.		Chris Nielsen	10 minutes
6. Update on Vehicle Electrical Testing	I6, A1 & I12, A6	R. Rossi	20 minutes
7. Compare failure mechanism of the current production acid tested parts vs. warranty UPAD parts.		Kyong Park	15 minutes
8. Affect of the gold process on warranty		Kyong Park	15 minutes
9. Update on fleet vehicles		Carol Verner	10 minutes
10. Walk-in's		All	10 minutes
11. Next meeting (3/19) agenda		All	5 minutes

<u>Proposed Next Meeting Agenda 3/19/02</u>	<u>Person(s) Responsible</u>	<u>Time Estimated</u>

Notes

Bring handouts (paper copies) for all presentations
 Provide electronic copies of presentations to CPANARB7 (no later than 1 hour prior to this meeting)
 Please be on time as we have a full agenda

Jim Maurer/ep: 6/5/2003
 Kavlico dPFE Sensor Core Team

From: Panaretos, Christine (C.M.)
Sent: Monday, March 04, 2002 4:51 PM
To: Akins, Mary (M.); Akolker, Shrikant (S.V.); Albrecht, Guanter (G.K.); Allee, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoska, Pete (P.F.); Bansek, Catherine (C.K.); Bersuder, Lee (L.C.); Bissel, Garry (G.); Bronn, Mark (M.J.); Danes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Hengas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kapp, Dan (Daniel R.); Kerezi, Karan (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Oswald, Greg (G.G.); Panaretos, Christine (C.M.); Park, Kyang; Pascany, Ken (K.M.); Parry, Brian (B.J.); Plante, Paul (P.G.); Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Rossi, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Smytha, Joseph (J.M.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); White-Johnson, Patrice (P.); Williamson, Richard (E.); Wilson, Cary (C.A.)
Subject: Agenda for Kavlico dPPE Sensor Core Team 3/5/02

Attached please find the agenda for tomorrow's Kavlico meeting. If you are a presenter and you have data that needs to be put in the evidence book or faxed to Kavlico, please send it to me no later than one hour (12:00 noon EST) prior to the meeting. Please bring at least 15 copies of your handouts to the meeting.



Kavlico Meeting
Agenda_030502...

If you have any questions, please contact me or Jim Maurer.

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-28265



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: Establish and implement corrective and containment actions for Kavlico TM dPFE Sensor

Meeting Logistics

Subject: Kavlico TM dPFE Sensor Core Team
Dates: March 5, 2002
Time: 1-2:30 p.m.
Location: POEE, DI-196 (FMBI War Room)
Called By: Jim Maurer, Team Leader: (313) 39-03672
Next Meeting (s): March 7, 2002, DI-196, 1-3:00 p.m.
 March 12, 2002, DI-196, 1-2:30 p.m.
 March 14, 2002, Technical Offsite #2
Conference Call-In Number(s): 9-1-954-1149 (inside Ford); 847-619-6158 (outside) Passcode: 6881436#
 Kavlico Fax: 805-531-6574

Core Team Participants

<u>Black Belts</u>	<u>Kavlico</u>	<u>V-Engine</u>	<u>Quality Office</u>	<u>ERSE</u>	<u>Purchasing</u>
Mark Freeland	Mary Alkins	Jim O'Neill	Mahmoud Awad	Sheran Alles	Joe Strythe
Shri Akolkar	Don Ayers	Freeman Gates	Kurt Schieding	Robert Rossi	Chris Nielsen
Jon Janda		Chris Panaretos			
		Paul Plante		<u>PCSE</u>	
<u>Team Leader</u>		Carol Verner		Ken Arnold	
Jim Maurer				Brian Perry	

Meeting Agenda -- 3/05/02

<u>Order of Agenda Items</u>	<u>Corr. Issue #</u>	<u>Person(s) Responsible</u>	<u>Time Allocated</u>
1. Introductions		All	5 minutes
2. Analysis of data from Kavlico returns	I1, A1	Loay Salaich	20 minutes
3. Update on obtaining fleet vehicles from buy-back lists/discussion of car requirements for testing	I6, A3 & I10, A6	Carol Verner	10 minutes
4. Pressure/voltage data for Zarlink and SMI sensors	I12, A4	Kavlico	5 minutes
5. Update on Vehicle Electrical Testing	I6, A1 & I12, A6	R. Rossi	20 minutes
6. Offsite Assignments (from 2/1 Technical Offsite)	Various	C. Panaretos	10 minutes
7. Agenda for 2-Day Technical Review (3/14 Offsite)		All	10 minutes
8. Walk-in's		All	5 minutes
9. Next meeting (3/5) agenda		All	5 minutes

<u>Proposed Next Meeting Agenda 3/7/02</u>	<u>Person(s) Responsible</u>	<u>Time Estimated</u>
Overlay of Kavlico and Ford changes on stack chart	Mahmoud Awad	10 minutes

Notes

Bring handouts (paper copies) for all presentations
 Provide electronic copies of presentations to CPANARET (no later than 1 hour prior to the meeting)
 Please be on time as we have a full agenda

Jim Maurer/cp: 6/5/2003
 Kavlico dPFE Sensor Core Team

From: Panaretos, Christine (C.M.)
Sent: Friday, March 01, 2002 2:32 PM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Allee, Sheran (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Dames, Adam (A.V.); Freeland, Mark (M.); Gates, Freeman (F.C.); Jahshan, John; Janda, Jon (J.M.); Maurer, James (J.B.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Panaretos, Christine (C.M.); Parry, Brian (B.J.); Plante, Paul (P.G.); Rossi, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Smythe, Joseph (J.M.); Verner, Carol (C.J.)
Subject: FW: Vacation

-----Original Message-----

From: Plante, Paul (P.G.)
Sent: Friday, March 01, 2002 2:20 PM
To: Panaretos, Christine (C.M.); Swift, Lori (L.K.)
Subject: Vacation

Chris, I am out of office Monday 3/4 returning Tuesday 3/12. Please pass on to team.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-64-54138; Fax 313-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Park, Kyong [KPark@kavico.com]
Sent: Tuesday, August 06, 2002 6:42 PM
To: mfreale1@ford.com; k_park@men.com
Subject: FW:



DP-HSG.jpg

FYI

> -----Original Message-----
> **From:** Nassar, Marcos
> **Sent:** Tuesday, August 06, 2002 9:44 AM
> **To:** Park, Kyong
> **Cc:** Nassar, Marcos
> **Subject:**
>
> **Housing Material:** VALOX 420, 30% Glass Filled
>
> **Melting Temperature:** 249 - 266 C
>
> **Material Manufacturer:** GE Plastics
> > <<DP-HSG.jpg>>

From: Park, Kyong [KPark@kavlico.com]
Sent: Wednesday, July 03, 2002 5:52 PM
To: mfraela1@ford.com; Davies, Brady
Subject: FW: DPFE Resistance Assessment

FYI

---Original Message---

From: Plante, Paul (P.G.) [mailto:pplante@ford.com]
Sent: Wednesday, July 03, 2002 8:59 AM
To: Park, Kyong
Subject: RE: DPFE Resistance Assessment

Send the data back to Me and I will research. If I can't tell, I will have to wait for M. Awad to return. I am OK with you having the data. It is difficult to comment by E Mail. Mark is at Kavlico now, maybe he can answer your question looking directly at the paper.

---Original Message---

From: Park, Kyong [mailto:KPark@kavlico.com]
Sent: Wednesday, July 03, 2002 10:08 AM
To: Plante, Paul (P.G.)
Cc: mfraela1@ford.com; Davies, Brady
Subject: RE: DPFE Resistance Assessment

I don't whether you remember, the reason why you authorized Mr. Awad to send these files to me is for Motorola return. So, how that story relates to these files which does not contain the information about Motorola?

---Original Message---

From: Plante, Paul (P.G.) [mailto:pplante@ford.com]
Sent: Tuesday, July 02, 2002 10:02 AM
To: Park, Kyong
Subject: RE: DPFE Resistance Assessment

No this data is Kavlico only.

---Original Message---

From: Park, Kyong [mailto:KPark@kavlico.com]
Sent: Tuesday, July 02, 2002 12:48 PM
To: Plante, Paul (P.G.)
Cc: Davies, Brady
Subject: RE: DPFE Resistance Assessment

So, you are saying that from Column A and B, I could find Motorola returns?

> ---Original Message---

> **From:** Plante, Paul (P.G.) [SMTP:pplante@ford.com]
> **Sent:** Friday, June 28, 2002 12:11 PM
> **To:** 'Park, Kyong'
> **Subject:** RE: DPFE Resistance Assessment

>

> Kyong, In the attachment marked "Data After": Column A has Vehicle Line
> Code, Column B has the corresponding vehicle name. These are common for
> all
> other data on the attachment.

>

> Mahmoud is on vacation in Jordan, his home country, for 2 weeks. If you

EA82-827-G 13188

> have
> other questions let Me know. Have a good 4 th of July holiday.

>
> -----Original Message-----
> From: Park, Kyong [mailto:KPark@kavlico.com]
> Sent: Friday, June 28, 2002 12:42 PM
> To: pplane@ford.com
> Cc: mawad@ford.com; mfreela1@ford.com; Davies, Brady
> Subject: FW: DPFE Resistance Assessment

>
> Paul,
> After yesterday's 14D meeting, I received a couple of files from Mr. M.
> Awad
> which are still attached to this memo for your convenience. I think that
> you
> also received the same files. I heard that Mr. Awad would be out of
> office
> for a while. So, I am asking you do me a favor. Please, teach me how I
> find
> the returns of Motorola parts from the file. I am not familiar with your
> platforms in regards to which platform uses which sensors.
> I thank you for your help.
> Kyong

> > -----Original Message-----
> > From: Awad, Mahmoud (M.I.) [SMTP:mawad@ford.com]
> > Sent: Friday, June 28, 2002 6:25 AM
> > To: Mary Akhs (E-mail); Freeland, Mark (M.); Gates, Freeman (F.C.);
> > Maurer, James (J.B.); McCliment, Greg (G.A.); Plane, Paul (P.G.); Poma,
> > Amy (A.); Brady Davis; Dan Ayers; Dr Park; Mary
> > Cc: McCliment, Greg (G.A.)
> > Subject: DPFE Resistance Assessment

> >
> > Dr. Park and Jim,
> > As promised, enclosed please find a file includes all the claims
> > reported
> > after Dec, 01 month of production. Please keep in mind that the
> > "abstract"
> > number of claims reported is not a good measure to assess a new change
> > like the resistance protection, the more appropriate way to do that is
> > to
> > use the stack charts where these claims are normalized by production
> > volumes. I did enclose another file that has the stack charts for
> > several
> > platforms that still have the Kavlico TM DPFE sensor. I'll leave the
> > assessment for you, since I think it is too early to make the call.
> >
> > <<Data After 12-30-01.xls>> <<Stack charts-May cut.xls>>
> >
> > > Best Regards
> > > Mahmoud Awad
> > > Reliability Implementation Engineer
> > > FMEI Department Support
> > > Phone: (313) 24-83869
> > > e-mail: mawad@ford.com
> > >
> > > <<Data After 12-30-01.xls>> <<Stack charts-May cut.xls>>

From: Park, Kyong [KPark@kavlico.com]
Sent: Wednesday, July 03, 2002 10:08 AM
To: Plante, Paul (P.G.)
Cc: mfree1@ford.com; Davies, Brady
Subject: RE: DPFE Resistance Assessment

I don't whether you remember, the reason why you authorized Mr. Awad to send these files to me is for Motorola returns. So, how that story relates to these files which does not contain the information about Motorola?

-----Original Message-----
From: Plante, Paul (P.G.) [mailto:pplante@ford.com]
Sent: Tuesday, July 02, 2002 10:02 AM
To: Park, Kyong
Subject: RE: DPFE Resistance Assessment

No this data is Kavlico only.

-----Original Message-----
From: Park, Kyong [mailto:KPark@kavlico.com]
Sent: Tuesday, July 02, 2002 12:48 PM
To: Plante, Paul (P.G.)
Cc: Davies, Brady
Subject: RE: DPFE Resistance Assessment

So, you are saying that from Column A and B, I could find Motorola returns?

> -----Original Message-----
> **From:** Plante, Paul (P.G.) [SMTP:pplante@ford.com]
> **Sent:** Friday, June 28, 2002 12:11 PM
> **To:** Park, Kyong
> **Subject:** RE: DPFE Resistance Assessment
>
> Kyong, in the attachment marked "Data After", Column A has Vehicle Line
> Code, Column B has the corresponding vehicle name. These are common for
> all
> other data on the attachment.
>
> Mahmoud is on vacation in Jordan, his home country, for 2 weeks. If you
> have
> other questions let me know. Have a good 4 th of July holiday.
>

> -----Original Message-----
> **From:** Park, Kyong [mailto:KPark@kavlico.com]
> **Sent:** Friday, June 28, 2002 12:42 PM
> **To:** pplante@ford.com
> **Cc:** mawad@ford.com; mfree1@ford.com; Davies, Brady
> **Subject:** FW: DPFE Resistance Assessment
>
>
> Paul,
> After yesterday's 14D meeting, I received a couple of files from Mr. M.
> Awad
> which are still attached to this memo for your convenience. I think that
> you
> also received the same files. I heard that Mr. Awad would be out of
> office
> for a while. So, I am asking you do me a favor. Please, teach me how I
> find
> the returns of Motorola parts from the file. I am not familiar with your

> platforms in regards to which platform uses which sensors.
> I thank you for your help.
> Kyong
>
>> —Original Message—
>> From: Awad, Mahmoud (M.I.) [SMTP:mawad@ford.com]
>> Sent: Friday, June 28, 2002 6:25 AM
>> To: Mary Akins (E-mail); Freeland, Mark (M.); Getas, Freeman (F.C.);
>> Maurer, James (J.B.); McCliment, Greg (G.A.); Plante, Paul (P.G.); Poma,
>> Amy (A.); Brady Davis; Dan Ayers; Dr Park; Mary
>> Cc: McCliment, Greg (G.A.)
>> Subject: DPFE Resistance Assessment
>>
>> Dr. Park and Jim,
>> As promised, enclosed please find a file includes all the claims
>> reported
>> after Dec, 01 month of production. Please keep in mind that the
>> "abstract"
>> number of claims reported is not a good measure to assess a new change
>> like the resistance protection, the more appropriate way to do that is
>> to
>> use the stack charts where these claims are normalized by production
>> volumes. I did enclose another file that has the stack charts for
>> several
>> platforms that still have the Kevlco TM DPFE sensor. I'll leave the
>> assessment for you, since I think it is too early to make the call.
>>
>> <<Data After 12-30-01.xls>> <<Stack charts-May cut.xls>>
>>
>>> Best Regards
>>> Mahmoud Awad
>>> Reliability Implementation Engineer
>>> FMEI Department Support
>>> Phone: (313) 24-83889
>>> e-mail: mawad@ford.com
>>>
>>> <<Data After 12-30-01.xls>> <<Stack charts-May cut.xls>>

From: Park, Kyong [KPark@kavlico.com]
Sent: Friday, June 21, 2002 10:24 AM
To: Mike Strizich
Cc: mfreela1@ford.com; pplante@ford.com; jmaurer@ford.com; apoma2@ford.com; fgate@ford.com; Akins, Mary; Davies, Brady; Tackman, Bruce; Ayers, Don; Ray, Randy
Subject: RE: Status

Dear Mike,
I thank you for your report, and I am distributing the concerned parties.
Yours,
Kyong

> -----Original Message-----
> From: Mike Strizich [SMTP:mstriz@analyticalsol.com]
> Sent: Thursday, June 20, 2002 6:08 PM
> To: 'Park, Kyong'
> Subject: RE: Status
>
> Mr. Park,
> Here is the second attempt at sending the letter. Hope you receive ok.
> Regards,
> Mike
>
> -----Original Message-----
> From: Park, Kyong [mailto:KPark@kavlico.com]
> Sent: Thursday, June 20, 2002 1:17 PM
> To: mstriz@analyticalsol.com
> Cc: mfreela1@ford.com; Davies, Brady
> Subject: Status
>
>
> Dear Mike,
>
> I wonder whether you have sent me any report about the issues we discussed
> over the phone.
>
> Please, let me know. We are looking forward to hearing from you.
>
> Thanks.
>
> Kyong
> << File: corrosion notes.doc >>

From: Park, Kyong [KPark@kavlico.com]
Sent: Thursday, June 20, 2002 3:17 PM
To: mstriz@analyticalsol.com
Cc: mfree1@ford.com; Davies, Brady
Subject: Status

Dear Mike,

I wonder whether you have sent me any report about the issues we discussed over the phone.

Please, let me know. We are looking forward to hearing from you.

Thanks.

Kyong

From: Park, Kyong [KPark@kavlico.com]
Sent: Monday, June 03, 2002 3:59 PM
To: mfreela1@ford.com
Cc: Ayers, Don; 'Akins, Mary (M.)'
Subject: RE: Wafer Carcasses Returned to Kavlico

Mark,
Kavlico has received those carcasses you had returned.
Thank you again.
Kyong

> -----Original Message-----

> From: Ayers, Don
> Sent: Monday, June 03, 2002 12:27 PM
> To: Park, Kyong; 'Akins, Mary (M.)'
> Subject: RE: Wafer Carcasses Returned to Kavlico
>
> They were received today. I will dispose of them appropriately.
>
> Don

> -----Original Message-----

> From: Park, Kyong
> Sent: Monday, June 03, 2002 12:08 PM
> To: Akins, Mary (M.); Park, Kyong
> Cc: Ayers, Don
> Subject: RE: Wafer Carcasses Returned to Kavlico

> Mary,
> As long as, one of us receive them safely, that will be all right
> with me.

> Don,
> Please, notify me when you receive them. I do not physically need
> them.
> Kyong

> -----Original Message-----

> From: Akins, Mary (M.) [SMTP:makins@ford.com]
> Sent: Monday, June 03, 2002 9:55 AM
> To: 'Park, Kyong'
> Cc: Don Ayers (E-mail)
> Subject: RE: Wafer Carcasses Returned to Kavlico

> Kyong, I shipped them directly to Don Ayers. I needed to
> ship two other
> items in the same package. Don will pass the wafer
> carcasses on to you when
> they arrive at his desk on Tuesday.

> Mary

> -----Original Message-----

> From: Park, Kyong [mailto:KPark@kavlico.com]
> Sent: Friday, May 31, 2002 4:29 PM

> To: Akins, Mary (M.)
> Subject: RE: Wafer Carcasses Returned to Kavlico
>
>
> Mary,
> Could you let me know whose attention you ship this package
> to?
> Thank you.
> Kyong

>
> > -----Original Message-----
> > From: Akins, Mary (M.) [SMTP:makins@ford.com]
> > Sent: Friday, May 31, 2002 11:01 AM
> > To: 'Park, Kyong'
> > Cc: Freeland, Mark (M.)
> > Subject: RE: Wafer Carcasses Returned to Kavlico
> >
> > Kyong,
> > The carcasses shipped via FedEx today with a delivery date
> of Tuesday,
> > June 4, 2002.
> >
> > Mary Akins
> >
> > -----Original Message-----
> > From: Park, Kyong [mailto:KPark@kavlico.com]
> > Sent: Wednesday, May 29, 2002 12:15 PM
> > To: Freeland, Mark (M.); Kyong Park (E-mail); Robert
> Weikal (E-mail);
> > Akins, Mary (M.)
> > Cc: Brady Davies (E-mail); Maurer, James (J.B.); Plante,
> Paul (P.G.);
> > Gates, Freeman (F.C.); Hargas, Jon (.); Tackman, Bruce
> > Subject: RE: Wafer Carcasses Returned to Kavlico
> >
> >
> > Mark,
> > Thank you.
> > I will acknowledge receiving them to you when they arrive
> here.
> > Kyong
> >
> > > -----Original Message-----
> > > From: Freeland, Mark (M.) [SMTP:mfreelal@ford.com]
> > > Sent: Wednesday, May 29, 2002 8:43 AM
> > > To: Kyong Park (E-mail); Robert Weikal (E-mail); Akins,
> Mary (M.)
> > > Cc: Brady Davies (E-mail); Maurer, James (J.B.); Plante,
> Paul (P.G.);
> > > Gates, Freeman (F.C.); Hargas, Jon (.)
> > > Subject: Wafer Carcasses Returned to Kavlico
> > >
> > > Kyong,
> > >
> > > Per you're request, and in accordance with the terms of
> our
> > > confidentiality agreement, I am returning all of the
> wafer Carcasses
> > > which
> > > I have in my possession to Kavlico.

> > The attached spreadsheet contains the inventory of the
> material I had in
> > my possession and the wafer carcasses which I am
> returning. There is
> > one
> > wafer, no. 2033925, which is unaccounted for. I have
> not been able to
> > locate this wafer. When I do I will return it also.
> >
> > Please note that there are also 13 loose die on various
> mounts also
> > included in the package.
> >
> > The material will be delivered to Mary Akins this
> afternoon, and she
> > will
> > ship it back to Bob Weikal's attention at Moorpark.
> >
> > If you wish the material to be received by an alternate
> designee, then
> > please let Mary know. I have specified Bob, as he is
> the official
> > conduit
> > for all confidential material, per the agreement.
> >
> > Thank you for the opportunity to study the material
> which I have had
> > since
> > January this year.
> >
> > Regards
> >
> > Mark Freeland <<Wafers Returned to Kavlico
> 20020529.xls>>
> >
> > > 6-Sigma Black Belt
> > > Engine Research Department
> > > Ford Research Laboratory
> > > P.O. Box 2053
> > > MD 2629 - BRL - Room 1517
> > > Dearborn, MI 48121-2053 USA
> > email: mfreela1@ford.com
> > Tel.: (313) 594-7645
> > << File: Wafers Returned to Kavlico 20020529.xls >>

From: Park, Kyong [KPark@kavlico.com]
Sent: Monday, June 03, 2002 11:50 AM
To: jmaurer@ford.com; pplante@ford.com; mfreelaf@ford.com; fgates@ford.com; apoma2@ford.com; mawad@ford.com; Davies, Brady; Akins, Mary
Cc: mstriz@analyticalsol.com; Tackman, Bruce; Hubbard, Rick
Subject: FW: PDFE FA report

FYI

> -----Original Message-----

> From: MIKE STRIZICH [SMTP:mstriz@analyticalsol.com]
> Sent: Monday, June 03, 2002 8:35 AM
> To: 'Park, Kyong'
> Subject: RE: PDFE FA report

>
> Kyong,
> Should be done by Wed this week. I am sure there will be a lot of
> questions
> generated by the current report. Just have people email me relative to the
> questions, and I will get them into a report addendum.
> Regards,
> Mike

>
> -----Original Message-----

> From: Park, Kyong [mailto:KPark@kavlico.com]
> Sent: Monday, June 03, 2002 9:10 AM
> To: mstriz@analyticalsol.com; jmaurer@ford.com; pplante@ford.com;
> mfreelaf@ford.com; fgates@ford.com; apoma2@ford.com; mawad@ford.com;
> Davies, Brady; Akins, Mary
> Cc: Tackman, Bruce; Hubbard, Rick
> Subject: FW: PDFE FA report

>
>
> Dear Mike,
> I am distributing your report to the concerned people, and I like to ask
> when we should expect your report on next phase analysis?
> Thank you very much for your report.
> Yours,
> Kyong

>
> -----Original Message-----

> > From: MIKE STRIZICH [SMTP:mstriz@analyticalsol.com]
> > Sent: Sunday, June 02, 2002 8:42 AM
> > To: 'Park, Kyong'
> > Cc: "Kevin Berger"; Clifton Aldridge
> > Subject: PDFE FA report

> >
> >
> > Dear Mr. Park,
> > Please find the attached failure analysis report for your review. An
> > addendum with mainly photos showing damage on remaining samples will
> > follow
> > shortly. Please pass along to FORD participants and Brady.
> > I look forward to your feedback, and hope we can continue to service
> > your
> > failure analysis needs.
> > Regards,
> > Michael Strizich

EA02-027-G 13270

> >
> > -----Original Message-----
> > From: Park, Kyong [mailto:KPark@kavlico.com]
> > Sent: Friday, May 31, 2002 8:34 AM
> > To: mstriz@analyticalsol.com
> > Subject: Report & Passcode
> >
> >
> > Dear Mike,
> > Hello.
> > I am not rushing you, but I am just wondering whether I should expect to
> > receive any report from you today. Ford people asked about a passcode to
> > your data base, the passcode that you had mentioned about during our
> > visit
> > to your company.
> > Please, let me know.
> > Thank you.
> > Kyong <<02F686PRELIM.pdf>>
> >

From: Park, Kyong [KPark@kavlico.com]
Sent: Friday, May 31, 2002 11:30 AM
To: jmaurer@ford.com; pplante@ford.com; mfreela1@ford.com; fgates@ford.com; apoma2@ford.com; mewad@ford.com
Subject: RE: Report & Passcode

This mail was returned and was forwarded.

Kyong

-----Original Message-----

From: Park, Kyong
Sent: Friday, May 31, 2002 8:07 AM
To: 'MIKE STRIZICH'
Cc: Akins, Mary; Davies, Brady; Tackman, Bruce; Hubbard, Rick; 'jmaurer@ford.com'; 'fgates@ford.com'; 'mfreela1@ford.com'; 'pplante@ford.com'; 'apoma2@ford.com'; 'mawad@ford.com'
Subject: RE: Report & Passcode

Mike,

I thank you for letting us know of the status of your work. Looking forward to receiving your report early next week, and we will be communicating with you soon after.

Yours,

Kyong

-----Original Message-----

From: MIKE STRIZICH [SMTP:mstriz@analyticalsol.com]
Sent: Friday, May 31, 2002 7:42 AM
To: 'Park, Kyong'
Subject: RE: Report & Passcode

Kyong,

Running a little behind, the report will come out early next week.

We are

trying to finish up our latch-up studies, and recreation of the corrosion.

This is taking longer than expected. The web site database is down currently, but the report will be out Mon or Tues.

Regards,

Mike

-----Original Message-----

From: Park, Kyong [mailto:KPark@kavlico.com]
Sent: Friday, May 31, 2002 8:34 AM
To: mstriz@analyticalsol.com
Subject: Report & Passcode

Dear Mike,

Hello.

I am not rushing you, but I am just wondering whether I should expect to

receive any report from you today. Ford people asked about a passcode to

your data base, the passcode that you had mentioned about during our visit

to your company.

Please, let me know.

Thank you.
Kyong

From: Park, Kyong [KPark@kavlico.com]
Sent: Friday, May 31, 2002 11:21 AM
To: jmMaurer@ford.com; fgates@ford.com; mfreele1@ford.com; pplante@ford.com; apoma2@ford.com; maward@ford.com
Subject: FW: Report & Passcode

This mail was returned and was forwarded.

> -----Original Message-----

> From: Park, Kyong
> Sent: Friday, May 31, 2002 8:07 AM
> To: 'MIKE STRIZICH'
> Cc: Akins, Mary; Davies, Brady; Tackman, Bruce; Hubbard, Rick;
> 'jmMaurer@ford.com'; 'fgates@ford.com'; 'mfreele1@ford.com';
> 'pplante@ford.com'; 'apoma2@ford.com'; 'maward@ford.com'
> Subject: RE: Report & Passcode

>
> Mike,
> I thank you for letting us know of the status of your work.
> Looking forward to receiving your report early next week, and we will be
> communicating with you soon after.
> Yours,
> Kyong

> -----Original Message-----

> From: MIKE STRIZICH [SMTP:mstriz@analyticalsol.com]
> Sent: Friday, May 31, 2002 7:42 AM
> To: 'Park, Kyong'
> Subject: RE: Report & Passcode

>
> Kyong,
> Running a little behind, the report will come out early next week. We are
> trying to finish up our latch-up studies, and recreation of the corrosion.
> This is taking longer than expected. The web site database is down
> currently, but the report will be out Mon or Tues.
> Regards,
> Mike

> -----Original Message-----

> From: Park, Kyong [mailto:KPark@kavlico.com]
> Sent: Friday, May 31, 2002 8:34 AM
> To: mstriz@analyticalsol.com
> Subject: Report & Passcode

>
> Dear Mike,
> Hello.
> I am not rushing you, but I am just wondering whether I should expect to
> receive any report from you today. Ford people asked about a passcode to
> your data base, the passcode that you had mentioned about during our visit
> to your company.
> Please, let me know.
> Thank you.
> Kyong

From: Park, Kyong [KPark@kavilco.com]
Sent: Friday, May 31, 2002 11:16 AM
To: Freeland, Mark (M.)
Subject: RE: Warranty Return Current Draw Data

Mike,
Thank you.
I will fax out the lab report on the Gel and the die attachment to you
today.
Kyong

> -----Original Message-----
> From: Freeland, Mark (M.) [SMTP:mfreel1@ford.com]
> Sent: Thursday, May 30, 2002 2:19 PM
> To: Kyong Park (E-mail)
> Subject: Warranty Return Current Draw Data
>
> Kyong,
>
> If you open the attached you will find the current draw data for the 362
> parts which we measured to select the outside lab parts. Hope this helps
> with the insight into the acid test data we discussed.
>
> Thanks for you're lab data. <<All Data SRL Test Data.xls>>
>
> Regards
>
> Mark Freeland
>
> > 6-Sigma Black Belt
> > Engine Research Department
> > Ford Research Laboratory
> > P.O. Box 2053
> > MD 2629 - SRL - Room 1517
> > Dearborn, MI 48121-2053 USA
> email: mfreel1@ford.com
> Tel.: (313) 594-7645
> << File: All Data SRL Test Data.xls >>

From: Park, Kyong [KPark@kavlico.com]
Sent: Friday, May 31, 2002 11:14 AM
To: MIKE STRIZICH
Cc: Akins, Mary; Davies, Brady; Tackman, Bruce; Hubbard, Rick; jmMaurer@ford.com; fgGates@ford.com; mfreele1@ford.com; pplante@ford.com; apoma2@ford.com; mawad@ford.com
Subject: RE: Report & Passcode

Mike,
I thank you for letting us know of the status of your work.
Looking forward to receiving your report early next week, and we will be communicating with you soon after.
Yours,
Kyong

> -----Original Message-----

> From: MIKE STRIZICH [SMTP:mstriz@analyticalsol.com]
> Sent: Friday, May 31, 2002 7:42 AM
> To: 'Park, Kyong'
> Subject: RE: Report & Passcode

>
> Kyong,
> Running a little behind, the report will come out early next week. We are
> trying to finish up our latch-up studies, and recreation of the corrosion.
> This is taking longer than expected. The web site database is down
> currently, but the report will be out Mon or Tues.
> Regards,
> Mike

> -----Original Message-----

> From: Park, Kyong [mailto:KPark@kavlico.com]
> Sent: Friday, May 31, 2002 8:34 AM
> To: mstriz@analyticalsol.com
> Subject: Report & Passcode

>
> Dear Mike,
> Hello.
> I am not rushing you, but I am just wondering whether I should expect to
> receive any report from you today. Ford people asked about a passcode to
> your data base, the passcode that you had mentioned about during our visit
> to your company.
> Please, let me know.
> Thank you.
> Kyong

From: Park, Kyong [KPark@kavlico.com]
Sent: Thursday, May 30, 2002 10:12 AM
To: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.); Plante, Paul (P.G.); Poma, Amy (A.); Davies, Brady; Akhs, Mary
Cc: Tackman, Bruce; Hubbard, Rick
Subject: FW: Analytical Solutions Work Plan



Fwd Progress
Report.rtf

For your records, I sent my response to Mr. Michael Strizich of Analytical Solutions for his work plan, which I have distributed already. If any comments, please let me know.
Kyong M. Park

> -----Original Message-----
> From: Park, Kyong
> Sent: Tuesday, May 28, 2002 2:39 PM
> To: 'mstriz@analyticalsol.com'
> Cc: Tackman, Bruce; Davies, Brady
> Subject: FW: Analytical Solutions Work Plan

>
>
>
> Dear Mike,
> As you can see, I distributed your plan to the participants of our regular meeting for their comments.
> Unless we have significant suggestion(s) to revise your work plan during the discussion in our meeting this Thursday,
> I think personally, you devised a fair and an excellent work plan. I am looking forward to receiving an intermediate, or the final report of your findings.
>
> If anything you need from us to expedite you analysis, please let me know.
> Thank you for the plan.
> Kyong

> -----Original Message-----
> From: Park, Kyong
> Sent: Tuesday, May 28, 2002 2:18 PM
> To: 'Maurer, James (J.B.)'; Gates, Freeman (F.C.); Freeland, Mark (M.); Plante, Paul (P.G.); Poma, Amy (A.); Davies, Brady
> Cc: Tackman, Bruce; Hubbard, Rick
> Subject: Analytical Solutions Work Plan

>
>
>
> To All;
>
> I have received the work plan from Mr. Michael Strizich of Analytical Solutions, and here I attached the plan below for your review.
> We will discuss your concerns or comments at the next 14D telephone conference if any.
> Truly,
> Kyong
>

> Kyong M. Park, D.Sc.
> Vice President, R&D
> Kavlico, a Sollectron Company
> 14501 Los Angeles Avenue
> Moorpark, CA 93021
> Tel.: 805/523-2000; e-Mail: kpark@kavlico.com
>
>
> <<Fwd Progress Report.rtf>>
>
>

From: Park, Kyong [KPark@kavlico.com]
Sent: Wednesday, May 28, 2002 12:15 PM
To: Freeland, Mark (M.); Kyong Park (E-mail); Robert Weikal (E-mail); Akins, Mary (M.)
Cc: Brady Davies (E-mail); Maurer, James (J.B.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Hargas, Jon (.); Tackman, Bruce
Subject: RE: Wafer Carcasses Returned to Kavlico

Mark,
Thank you.
I will acknowledge receiving them to you when they arrive here.
Kyong

> -----Original Message-----
> From: Freeland, Mark (M.) [SMTP:mfreelal@ford.com]
> Sent: Wednesday, May 29, 2002 8:43 AM
> To: Kyong Park (E-mail); Robert Weikal (E-mail); Akins, Mary (M.)
> Cc: Brady Davies (E-mail); Maurer, James (J.B.); Plante, Paul (P.G.);
> Gates, Freeman (F.C.); Hargas, Jon (.)
> Subject: Wafer Carcasses Returned to Kavlico
>
> Kyong,
>
> Per you're request, and in accordance with the terms of our
> confidentiality agreement, I am returning all of the wafer Carcasses which
> I have in my possession to Kavlico.
> The attached spreadsheet contains the inventory of the material I had in
> my possession and the wafer carcasses which I am returning. There is one
> wafer, no. 2033925, which is unaccounted for. I have not been able to
> locate this wafer. When I do I will return it also.
>
> Please note that there are also 13 loose die on various mounts also
> included in the package.
>
> The material will be delivered to Mary Akins this afternoon, and she will
> ship it back to Bob Weikal's attention at Moorpark.
>
> If you wish the material to be received by an alternate designee, then
> please let Mary know. I have specified Bob, as he is the official conduit
> for all confidential material, per the agreement.
>
> Thank you for the opportunity to study the material which I have had since
> January this year.
>
> Regards
>
> Mark Freeland <<Wafers Returned to Kavlico 20020529.xls>>
>
> > 6-Sigma Black Belt
> > Engine Research Department
> > Ford Research Laboratory
> > P.O. Box 2053
> > MD 2629 - SRL - Room 1517
> > Dearborn, MI 48121-2053 USA
> email: mfreelal@ford.com
> Tel.: (313) 594-7645
> << File: Wafers Returned to Kavlico 20020529.xls >>

From: Park, Kyong [KPark@kavlico.com]
Sent: Tuesday, May 28, 2002 5:26 PM
To: Maurer, James (J.B.); Gates, Freeman (F.C.); Frøeland, Mark (M.); Pianta, Paul (P.G.);
Poma, Amy (A.); Davies, Brady
Cc: Tackman, Bruce; Hubbard, Rick
Subject: Analytical Solutions Work Plan



Fwd Progress
Report.rtf

To All;

I have received the work plan from Mr. Michael Strizich of Analytical Solutions, and here I attached the plan below for your review. We will discuss your concerns or comments at the next 14D telephone conference if any.

Truly,
Kyong

Kyong M. Park, D.Sc.
Vice President, R&D
> Kavlico, a Solectron Company
> 14501 Los Angeles Avenue
> Moorpark, CA 93021
> Tel.: 805/523-2000; e-Mail: kpark@kavlico.com
>
>

<<Fwd Progress Report.rtf>>

From: Park, Kyong [KPark@kavlico.com]
Sent: Wednesday, May 22, 2002 3:10 PM
To: Hargas, Jon (.)
Cc: mfreela1@ford.com; Davies, Brady
Subject: RE: die attach

 
Loctite Spec Die Attach.PDF Loctite TGA.PDF

Jon,

Ya !

I gave the Loctite QMI536 specification sheet to Mark but I also attached here for you.

We have sent out to TGA/DSO and I got the result, but I have not got the result for the element analysis yet.

Loctite specification sheet says that it will produce HF as combustion gas and hazardous gas.

It implies that it will produce above 300 degree C - but it did not mention the exact temperature.

Kyong

<<Loctite Spec Die Attach.PDF>> <<Loctite TGA.PDF>>

> -----Original Message-----

> From: Hargas, Jon (.) [SMTP:jhargas@ford.com]

> Sent: Wednesday, May 22, 2002 11:43 AM

> To: 'kpark@kavlico.com'

> Cc: Carter, Roscoe (R.O.); Flanigan, Cynthia (C.M.); Freeland, Mark (M.)

> Subject: die attach

>

> Kyong,

> The adhesive spent the weekend on my desk. It was not until Roc read the label Monday that we put it in storage at -40C.

>

> The syringe the adhesive was in had a solid or semi-solid lump in it when it

> was first attempted to use it.

>

> An attempt was made by Roc Carter and Cynthia Flanigan to bond two metal plates together to get a pull strength. The bond failed at the metal

> surface with no strength. The adhesive extruded on the plates may have

> been of improper composition due to improper storage. The material in

> the

> syringe is now solidified.

>

> If we do this again it may be necessary to ship the adhesive under dry ice.

> We now know to store it in a cooler immediately upon receipt.

>

> Roc finds it interesting that NOx and HF are given off by the die attach adhesive when it degrades at high temperature.

>

> Jon Hargas

> Ford Research Lab

> 313-323-1068

ENG2-827-G 13317



Material Safety Data Sheet

IDENTIFICATION

Product Number: QMI 536

Product Name: Organic Die Attach

Synonyms: Non-Conductive Thermoset Adhesive

INGREDIENT DISCLOSURE

CAS number	Name	%	Potential Hazard
8002-84-0	Proprietary Filler	≤ 50	Irritant evolution at temperatures greater than 300°C (572°F)
none	Proprietary Bismaleimide	≤ 50	polymerization
none	Proprietary Polymer	≤ 20	polymerization

TSCA Status: The product is a mixture and therefore listing on the TSCA registry is not required. Each of these ingredients are listed, or covered by a low volume exemption under section 5(h) (4).

PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: N/E

Density g/ml: 1.28

Water Solubility: Insoluble

Boiling Pt °C: N/A

Vapor Pressure: Negligible

Polymerization Temp: 150°C

Physical State, Appearance and Odor: A viscous white paste with mild odor.

FIRE AND EXPLOSION HAZARD DATA

Flash Point °F: > 200 °F

Extinguishing Media: carbon dioxide, dry chemical, water fog

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent inhalation or contact of combustion products.

Unusual Fire and Explosion Hazards: Hazardous polymerization will not occur.

Product Number: QMI 536

Product Name: Organic Die Attach

REACTIVITY DATA

Material is stable under normal storage and recommended use conditions (-40°C, and < 35°C, respectively)

Incompatibilities: Strong Oxidizers, acids, and bases.

Hazardous Combustion or Decomposition Products: CO₂, CO, HF, NO_x, hydrocarbons from incomplete combustion.

TOXICITY AND HEALTH HAZARD DATA

Potential Routes of entry: Ingestion, skin and eye exposure.

Is material listed in National Toxicology Program, Third Annual Report on Carcinogens? No

Has the material been found to be a potential carcinogen by the International Agency for Research on Cancer? No

Acute Effects: May cause eye and skin irritation on contact. Inhalation of fumes evolved during the product's cure may irritate the respiratory tract. Ingestion may cause irritation to the gastrointestinal tract.

To the best of our knowledge, the chemical, physical and toxicological properties of this material have not been thoroughly investigated.

First Aid:

Inhalation - Remove to fresh air and consult a physician. If not breathing give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Eyes - Flush with water for at least 15 minutes and contact a physician.

Skin - Remove contaminated clothing as needed. Wash affected area with soap and water.

Ingestion - Drink large quantities of water. Do not induce vomiting. Contact a physician. Never give liquids to an unconscious person.

Product Number: QMI 536

Product Name: Organic Die Attach

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Protective equipment: Safety glasses and chemical resistant gloves.

Handling protocols: Good personal hygiene must be maintained. Do not allow eating, smoking, or drinking in storage or use areas. Avoid ingestion and contact with skin and eyes. Use product in a well ventilated area.

Storage conditions: Store at -40°C until required for use.

SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled:

Small spills: Wipe up spilled material and package in storage drums for disposal.

Large spills: Shovel material in to storage drums for disposal.

Waste disposal method: Destructive incineration in a permitted facility is the preferred method of disposal. Observe all federal, state and local laws.

REGULATORY INFORMATION

This product contains a toxic chemical(s) subject to the reporting requirements of SARA 313 (40CFR372).

OTHER INFORMATION

The information contained herein relates only to the specific material identified. Loctite Corporation believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Loctite Corporation urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

Latest Revision By Bill Wood, Dated 9/19/98

Loctite Corporation
9938 Via Pasar, San Diego, CA 92128
Phone: (858) 695-1716 fax: (858) 695-0951

A  Company

LOCTITE

Formerly Dexter

Technical Data Sheet

Hysol[®] QMI 536

Non-Electrically Conductive Adhesive

Description

QMI 536 is a Teflon[™] (PTFE) filled non-conductive adhesive for attachment of integrated circuits and components to advanced substrates, including: PBGA's, array packages, tape packs, CSP's, and stacking die-on-die. The material is hydrophobic and stable at high temperatures. These features produce a void-free bond line with excellent interfacial adhesion strength to a wide variety of organic and metal surfaces, including solder mask, BT, FR, polyimide, Au, Kapton[™] and Mylar[™]. The adhesive also has excellent dielectric properties.

QMI 536 can be cured in a conventional oven, on a snap cure oven, or utilize Loctite's Skip-Cure[™] processing on a die bonder or wire bonder. The material is formulated to produce cure onset below 100°C. This can reduce or eliminate the need to pre-dry organic substrates prior to the die attach process.

"This product and its use may be covered by patent 5,717,034 and by one or more pending patent applications."

Typical Properties	QMI 536	Test Method
Viscosity 5 rpm @ 25°C, cP	8,500	TM 547
Thixotropic Index (.5/5 rpm)	5.7	TM 547
Pot Life @ 25°C, hours	24	TM 592
Shelf Life @ -40°C, months	12	TM 589
Specific Gravity, g/cc	1.26	TM 461
Die Shear (300 ml ² , 1 mil BLT) Average kg-f @ 25°C	17	TM 558
Moisture Absorption, wt., % 168 hours @ 85°C-85% RH	≤0.35%	TM 590
Extractable Ion Content, ppm Na ⁺ , K ⁺ Cl ⁻ , F ⁻	≤20 ≤20	TM 449
α Emissions count - particles/cm ² /hr	0.0007	DTM 0031A
Glass Transition Temperature (T _g), °C	-31	TM 433
Coefficient of Thermal Expansion (TMA) α ₁ , ppm/°C α ₂ , ppm/°C	93 174	TM 433
Volume Resistivity, ohm-cm	>10 ¹³	TM 572
Dielectric Constant @ 1 MHz, 25°C	2.6	TM588
Thermal Conductivity, W/m °K	0.3	ASTM 1461
DMA Modulus @ 25°C, GPa	0.3	TM 458
DMA Modulus @ 25°C, psi	43,000	

The above figures are typical material properties only and are not to be used for material specification purposes. To generate a specification for this product, please contact our Quality Manager and request a copy of the current stock specification.

Storage and Handling

QMI 536 is supplied in syringes and should be stored at -40°C. Please review Loctite's current Die Attach Handling Procedure for additional details on thawing and usage.

Cure Schedule

QMI 536 can be cured using a variety of times and temperatures, depending upon the specific cure equipment. Typical cure profiles are listed below. In these profiles, the temperatures stated are bondline temperatures and the stated times are at temperature.

Cure Mode	Bondline Temperature	Time @ Temperature
Conventional Oven	150 °C	15 minutes
Snap Cure Oven	150 °C	≥ 10 seconds
Tunnel Oven configured with hot gas or IR	150 °C	≥ 10 seconds
Step-Cure™	150 °C	≥ 8 seconds

TDS3005 – 536 Rev. J

03/02

For additional information in the Americas, please contact one of the following locations:

California
TEL: 848.685.1716
FAX: 858.695.0951

Canada
TEL: 905.814.6311
FAX: 905.814.5391

For a complete listing of worldwide locations and information on related products, please visit our website www.loctite.com/pla/usa/index

DISCLAIMER: The information supplied in this document is for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitation any warranty of merchantability and fitness for use. All users of the materials are responsible for ensuring that it is suitable for their needs, environment and use. All data is subject to change as Loctite deems appropriate.

Users should review the Material Safety Data Sheet (MSDS) and product label for the material to determine possible health hazards, appropriate engineering controls and precautions to be observed in using the material. Copies of the MSDS and label are available upon request.



From: Park, Kyong [KPark@kavlico.com]
Sent: Saturday, May 18, 2002 11:08 AM
To: Freeland, Mark (M.)
Subject: RE: Parts data for Analytical Solutions

Mark,
You forgot to attach the attachment.
Thanks.
Kyong

> -----Original Message-----
> From: Freeland, Mark (M.) [SMTP:mfreelal@ford.com]
> Sent: Thursday, May 16, 2002 6:36 PM
> To: Kyong Park (E-mail); Brady Davies (E-mail); Maurer, James (J.B.);
> Gates, Freeman (F.C.)
> Cc: Plante, Paul (P.G.); Akolkar, Shrikant (S.V.); Janda, Jon (J.M.);
> Verner, Carol (C.J.); Danes, Adam (A.V.)
> Subject: Parts data for Analytical Solutions
>
> Attached is an updated data file for the Analytical Solutions parts.
>
> Jon and Shri re-examined each part and updated the data to insure that
> they had all been examined consistently and with their most recent
> knowledge at hand.
>
> Please dispose of older versions of this file.
>
> Copies of the photographs will be distributed on CD and hard copy when we
> get to NM.
>
> Regards
>
> Mark Freeland
>
> > 6-Sigma Black Belt
> > Engine Research Department
> > Ford Research Laboratory
> > P.O. Box 2053
> > MD 2629 - SRL - Room 1517
> > Dearborn, MI 48121-2053 USA
> > email: mfreelal@ford.com
> > Tel.: (313) 594-7645

From: Park, Kyong [KPark@kavlico.com]
Sent: Tuesday, May 14, 2002 6:53 PM
To: Maurer, James (J.B.)
Cc: Tackman, Karen; Davies, Brady; mfreea1@ford.com; fgates@ford.com
Subject: Trip to Analytical Solutions in New Mexico, USA

Dear Jim,
Brady and I will be flying out to New Mexico on Sunday, May 19, 2002. We are planning to arrive at around 4 PM in local time. We will fly back Monday evening.

As soon as I learn our itinerary, we will let you know.
Yours,
Kyong

From: Park, Kyong [KPark@kavico.com]
Sent: Friday, May 10, 2002 11:14 AM
To: Freeland, Mark (M.)
Subject: RE: Parts received

Mark

Yes, indeed.

It seems to be..until someone likes to see some changes with funny stuffs,
ie, funny plastics or funny gas with micro-organisms! in it?
However, I am glad you got them.

Kyong

> -----Original Message-----

> From: Freeland, Mark (M.) [SMTP:mfreel1@ford.com]
> Sent: Friday, May 10, 2002 7:59 AM
> To: Kyong Park (E-mail)
> Subject: Parts received

>

> Kyong,

>

> The system works very well.

> This morning I received the 10 parts you shipped yesterday.

>

> Thank you

>

> Regards

>

> Mark Freeland

>

> > 6-Sigma Black Belt

> > Engine Research Department

> > Ford Research Laboratory

> > P.O. Box 2053

> > MD 2629 - SRL - Room 1517

> > Dearborn, MI 48121-2053 USA

> email: mfreel1@ford.com

> Tel.: (313) 594-7645

From: Park, Kyong [KPark@kavlico.com]
Sent: Friday, May 10, 2002 11:18 AM
To: Freeland, Mark (M.)
Subject: RE: C90 test data

Mark,
Thank you very much.
Kyong

> -----Original Message-----
> From: Freeland, Mark (M.) [SMTP:mfreela1@ford.com]
> Sent: Friday, May 10, 2002 7:51 AM
> To: Kyong Park (E-mail)
> Subject: C90 test data
>
> <<E0509000.xls>> <<E0509001.xls>>
>
> Kyong,
>
> Here are two example traces from plugging in the C90 connector. Note the
> pick up point for the measurement is at the dPFE end of the wires (i.e.
> not
> at the PCM end of the wires).
>
>
> Regards
>
> Mark Freeland
>
> > 6-Sigma Black Belt
> > Engine Research Department
> > Ford Research Laboratory
> > P.O. Box 2053
> > MD 2629 - SRL - Room 1517
> > Dearborn, MI 48121-2053 USA
> email: mfreela1@ford.com
> Tel.: (313) 594-7645
> << File: E0509000.xls >> << File: E0509001.xls >>

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Theoretical Study of the Validity of the Born-Oppenheimer Approximation in the $\text{Cl} + \text{H}_2 \rightarrow \text{HCl} + \text{H}$ Reaction

Millard H. Alexander,^{1*} Gabriella Capecchi,²
Hans-Joachim Werner^{2*}

Reactivity of the excited spin-orbit state of Cl with H_2 to yield ground-state HCl products is forbidden by the Born-Oppenheimer (BO) approximation. We used new ab initio potential energy surfaces and exact quantum scattering calculations to explore the extent of electronic nonadiabaticity in this reaction. In direct contrast to recent experiments, we predict that the BO-allowed reaction of the ground spin-orbit state will be much more efficient than the BO-forbidden reaction of the excited spin-orbit state. Also, Coriolis coupling opens up an electronically nonadiabatic inelastic channel, which competes substantially with reaction.

The kinetics of the $\text{Cl} + \text{H}_2$ reaction has been the object of study for more than a century (1, 2). The reaction has played an important role in the development of transition state theory, has provided verification of the kinetic isotope effect, and is the paradigm for the reaction of Cl with hydrocarbons, which is of importance in many atmospheric environments. Recently, molecular beam techniques have been used to yield information on this reaction at well-defined collision energies (3-6). Quasi-classical trajectory and precise quantum scattering investigations have been reported (7-16) on several potential energy surfaces (PESs) (17, 18). All previous theoretical work has been based on the approximation that only a single PES governs the reaction and that the open-shell character of the Cl atom plays no role in the dynamics.

The approach of molecular hydrogen to an atom in a 2P electronic state splits the degeneracy of this state, giving rise to three PESs (18-21). Of these only the lowest, which corresponds to the lower state of A' symmetry in C_∞ geometry (Σ symmetry in collinear geometry), correlates with the electronic ground state of the products [$\text{H} + \text{HCl}(^1\Sigma^+)$]. The PESs of the two other states (the higher state of A' symmetry and the unique state of A'' symmetry) correlate with HCl products in the $e^2\Pi$ electronic state, which is considerably higher in energy (22) (Fig. 1).

The excited spin-orbit (SO) state of the Cl

atom ($^2P_{1/2}$), which lies 840 cm^{-1} (2.52 kcal/mol) above the ground SO state ($^2P_{3/2}$), does not correlate adiabatically with the electronic ground state of the reaction products. Thus, if the reaction were to proceed adiabatically on a single PES, as would be predicted by the Born-Oppenheimer (BO) approximation, then the excited SO state would not react (24, 25). For the chemically similar $\text{F} + \text{H}_2$ reaction, both theory (21) and experiment (26, 27) agree that the reactivity of the excited SO state is, at most, 10% of that of the ground state. The $\text{Cl} + \text{H}_2$ reaction differs in two respects: (i) the spin-orbit splitting is more than a factor of 2 greater (23) and (ii) the barrier height is much higher. The larger SO splitting suggests that the breakdown in the BO approximation would be less important in the $\text{Cl} + \text{H}_2$ reaction. However, because the

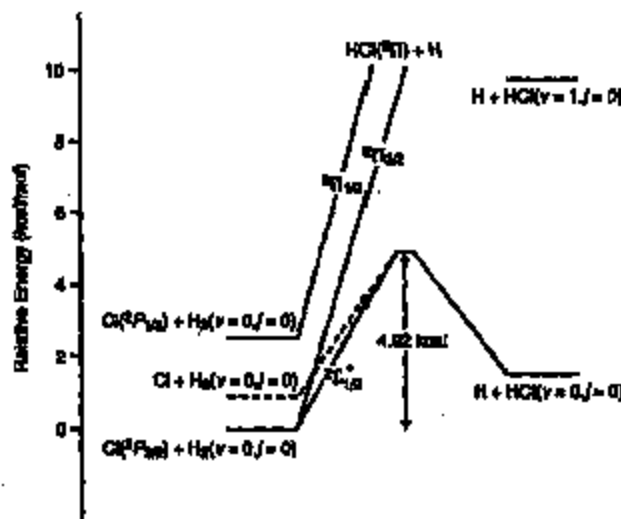
internal SO energy might help to overcome the higher barrier, nonadiabaticity might be more important in $\text{Cl} + \text{H}_2$.

In recent molecular beam experiments, Liu and co-workers (4-6) used two different Cl atom sources to characterize the reactivity of the two SO states of the Cl atom. Except at the lowest collision energies, they conclude that the excited SO state has a substantially larger reactive cross section. This result is surprising, because the body of prior experimental work indicates that BO-allowed (adiabatically allowed) pathways always dominate (25, 28).

This breakdown in the BO approximation inferred by Liu and co-workers (4-6) demands further theoretical investigation. Two questions must be answered: (i) How large is the reactivity of the adiabatically forbidden channel [$\text{Cl}(^2P_{1/2}) + \text{H}_2$], and (ii) how well can the reactivity of the adiabatically allowed channel [$\text{Cl}(^2P_{3/2}) + \text{H}_2$] be predicted by standard scattering calculations (7-16), based on a single PES in which nonadiabatic effects are of necessity neglected. We used exact quantum scattering calculations to answer these questions.

We first need accurate PESs for the three electronic states mentioned above. For the subsequent scattering calculations, it is necessary to transform the two states of A' symmetry into an electronically diabatic basis, in which the orientation of the missing 3p electron on the Cl atom remains unchanged in the body frame (21). Capecchi and Werner (29) have carried out internally contracted, multireference, configuration-interaction calculations (30, 31) of these PESs and the SO coupling matrix elements. Transformation into the diabatic basis results in four PESs. Capecchi and Werner subsequently developed multiparameter global fits (29) to these

Fig. 1. Schematic plot of the energetics of the $\text{Cl} + \text{H}_2$ reaction. The relative reactant energies, the position of the barrier, and the position of the indicated HCl product channels are drawn to scale. All energies include zero-point corrections; those for the barrier were determined from the constants published by Blum and Werner (table II of (28)). Undermolecule Σ and Π state labels are used, which is appropriate for a collinear transition state. The dashed line indicates the schematic reaction profile for single-surface calculations based on the BW2 PES, in which the SO Hamiltonian is not included.



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PESs and to the two SO coupling functions (21). Their calculations extend the earlier work of Bian and Werner (18), which was limited to the lowest electronically adiabatic ClH_2 PES.

In the $\text{Cl} + \text{H}_2$ arrangement, there are six electronic states. These correspond to the three spatial orientations of the $3p$ hole on the Cl atom and the two possible spin-projection quantum numbers. In each $\text{H} + \text{HCl}$ product arrangement, we neglect the high-lying Π states of HCl (22). In general, outside the reactant arrangement, the description of the $\text{Cl} + \text{H}_2$ system is unchanged from the original BW2 fit (18), which was limited to the lowest electronically adiabatic PES.

If the sum of the electronic interaction Hamiltonian plus the SO coupling in the 6×6 electronic basis is diagonalized at each value of the coordinates, the lowest root will define what we will call the fully (electronic + SO) adiabatic Caspoch-Werner (CWad) PES and corresponds to the reactive PES illustrated schematically in Fig. 1. This PES differs from the BW2 PES (18), which is obtained by diagonalizing only the electrostatic Hamiltonian, without inclusion of the SO Hamiltonian.

The SO Hamiltonian couples the reactive PES (${}^2\Sigma_{1/2}$ in linear geometry) with the two repulsive PESs (${}^2\Pi_{3/2}$ and ${}^2\Pi_{1/2}$ in linear geometry). Because the latter are so much higher in energy at the barrier, inclusion of the SO coupling has a negligible effect at the barrier. However, inclusion of the SO coupling in the asymptotic reactant region lowers

the lowest adiabatic PES by $\sim 1/3$ the SO splitting of the Cl atom. Thus, when compared to the BW2 PES, the barrier to reaction on the CWad PES is ~ 0.84 kcal/mol higher (18, 21, 32-34).

In addition to the electrostatic and SO Hamiltonians, it is also necessary to determine matrix elements of the orbital angular momentum of the triatomic system $L^2 = (J - l - s)^2$, where J is the total angular momentum, l is the rotational angular momentum of the diatomic moiety, and l and s are the electronic orbital and spin angular momenta (21).

With the required ClH_2 PESs in the diabatic basis, it is possible to carry out complete quantum scattering calculations. We draw from the formalism presented by Schatz on the $\text{Cl} + \text{HCl}$ exchange reaction (27) and use the algorithms and computer program developed over the past decade by Manolopoulos and co-workers (35, 36), extended, as we have described previously (21), to treat abstraction reactions involving an atom in a 2P electronic state. The choice of integration parameters was identical to those adopted in the single-state studies of the $\text{Cl} + \text{H}_2$ reaction (14).

We obtain, at each value of the total angular momentum J , probabilities for transition from a given initial state to any particular final state of either the reactants (an inelastic collision) or products (a reactive collision). By summing the latter over all accessible product states and averaging over the rotational ($2j + 1$) and electronic ($2j_e + 1$) degeneracy of the initial state ($j_e = 3/2$ or $1/2$),

one extracts a total probability for reaction.

In Fig. 2 we compare, at the lowest value of the total angular momentum ($J = 0.5$), the calculated total probabilities for reaction of H_2 in $v = 0, j = 0$ (the lowest rotational level of para- H_2). The multistate results, determined with the full set of diabatic PESs, are compared in Fig. 2 with the $J = 0$ transition probabilities, as predicted by single-state calculations on the CWad PES. In the latter calculation, both the SO and electronic-orbital angular momenta of the Cl atom were neglected, as in any standard single-state treatment of a triatomic reaction (13, 16, 33, 36). The reaction probabilities are plotted as a function of collision energy, which is the fundamental dynamical variable in a molecular beam experiment. Thermal rate constants could then be obtained by integration over a Maxwellian distribution of collision velocities, although an equally valid expression involves integration over the total (collision + internal) energy of the "cumulative reaction probability" (32).

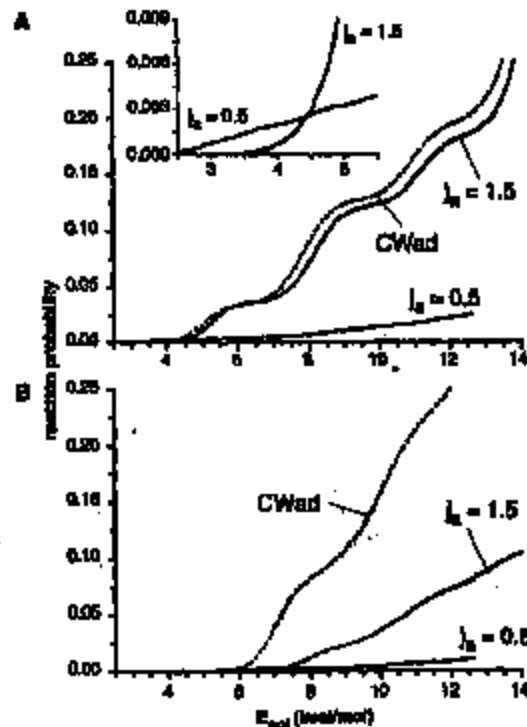
In the multistate treatment, four states correlate with the ground-state reactants $\text{Cl}({}^2P_{3/2}) + \text{H}_2$; namely, as seen in Fig. 1, $\Sigma_{1/2}$ and $\Pi_{3/2}$. Of these, the Π states are repulsive, within the BO approximation, so that, to zeroth order, only 50% of the reactants will approach on a PES that leads to reaction. However, in the single-state calculations, one assumes that all (100%) of the reactants will approach on the reactive PES. To take into account this fundamental difference, previous investigators (21, 37) have divided the single-state results by a factor of 2 to compare with the cross sections and probabilities for reaction out of the $j_e = 3/2$ level of a 2P atom obtained from multistate calculations.

The probability for (adiabatically forbidden) reaction out of the excited ($j_e = 1/2$) SO state of Cl is much smaller than the probability for the adiabatically allowed reaction of the ground SO state. Only at collision energies below the zero-point corrected barrier to reaction [$E_{\text{int}} < 6.93$ kcal/mol (Fig. 1)] does the adiabatically forbidden channel start to dominate, because the threshold for reaction of the excited SO state is 2.52 kcal/mol lower.

We also observe that the reaction probabilities predicted by single-state calculations on the fully adiabatic CWad PES agree very well with the multistate probabilities for the adiabatically allowed channel. As discussed above, the single-state probabilities have been divided by 2. Because the excited Π states are very high in energy in the region of the barrier, the topology of the barrier, which controls the flux from reactants to products, is virtually identical in the multistate and single-state calculations.

The pronounced staircase-like structure in the reaction probability out of the lower (adi-

Fig. 2. (A) Probabilities for reaction of Cl in the $j_e = 3/2$ (${}^2P_{3/2}$) and $j_e = 1/2$ (${}^2P_{1/2}$) SO states with H_2 ($v = j = 0$) for $J = 0.5$. The abscissa is the collision energy. Also shown are reaction probabilities determined from single-state calculations based on the fully adiabatic (CWad) PESs for $J = 0$ but divided by a factor of 2. (Inset) The low-energy behavior of the multistate probabilities. (B) Similar reaction probabilities, but for $J = 17.5$.



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electronically allowed) SO state corresponds to the successive opening of additional vibrational states at the barrier.

The lower panel of Fig. 2 displays similar reactive transition probabilities, but for $J = 17.5$. Again, the CWad probabilities have been divided by 2. At this higher angular momentum, the centrifugal barrier has increased. Consequently, the threshold for reaction occurs at a higher collision energy. At $J = 17.5$, the multistate reactions are now substantially smaller than those predicted by the single-state CWad calculations, even after division by 2. Similar comparisons at other values of J reveal that as J increases, the multistate reaction probabilities become increasingly smaller (than the comparable single-state probabilities). Because the discrepancy grows roughly linearly with J , Coriolis coupling would seem to be responsible.

In the single-state calculations, only three outcomes of a collision are possible: (i) elastic scattering, (ii) inelastic scattering on the repulsive PES, or (iii) reactive scattering. In the multistate calculations, additional inelastic channels are present for collisions of Cl in its ground SO state with H_2 , namely (Fig. 1) (iv) elastic and inelastic scattering on the repulsive (${}^2\Pi_{3/2}$) PES; (v) inelastic scattering from the (${}^2\Sigma_{1/2}^+$) PES to the (${}^2\Pi_{1/2}$) PES, which will be accompanied by SO excitation of the Cl atom without reaction; and (vi) inelastic scattering from the reactive (${}^2\Sigma_{1/2}^+$) PES back to the (${}^2\Pi_{1/2}$) PES. The last process will yield Cl in its ground SO state, accompanied by rotational and/or vibrational excitation of the H_2 . At low J , these additional inelastic channels do not seem to deplete the reactive scattering, because the single- and multistate reaction probabilities shown in Fig. 2A are virtually identical. However, a difference between the single-state and multistate probabilities for reaction of Cl(${}^2\Sigma_{1/2}^+$) does emerge as J increases (Fig. 2B). It is the inelastic channels that are responsible for this difference.

We find that the sum of the reactive and inelastic transition probabilities as predicted by the multistate calculations at $J = 0.5$ and 17.5 agrees very closely with a similar sum, but divided by a factor of 2, of the inelastic and reactive probabilities predicted by the single-state CWad calculations at $J = 0$ and 17 . Because this agreement is obtained by dividing the single-state results by a factor of 2, we conclude that incoming flux on the repulsive (${}^2\Pi_{3/2}$) PES (Fig. 1) has an insignificant probability of either reaction (as discussed above) or inelastic scattering.

Because at higher J the summed (inelastic + reactive) probabilities agree whereas the reactive probabilities are significantly lower for the multistate (as compared to the single-state) calculations (Fig. 2), we conclude that, at higher J , the multistate inelastic probabilities must exceed those predicted by the sin-

gle-state calculations. This is indeed the case, as illustrated in Fig. 3.

At low energy, below the barrier to reaction, the multistate calculations at $J = 17.5$ reveal a pronounced oscillatory structure. This structure is the manifestation of quantum interference between trajectories that undergo an inelastic transition from the less repulsive (${}^2\Sigma_{1/2}^+$) PES to the more repulsive (${}^2\Pi_{3/2}$) PES when the system passes through the zone of strong nonadiabatic coupling as the atoms approach and then again as they recede, having bounced off the barrier to reaction (38).

As the collision energy rises above the barrier, the inelastic probabilities predicted by the CWad single-state calculations remain relatively independent of J . However, the multistate inelastic transition probabilities show a pronounced increase. This is a consequence of the presence of an additional electronic channel(s), not present in the single-state calculations.

In a linear molecule, the non-BO coupling between (${}^2\Sigma_{1/2}^+$) and (${}^2\Pi_{3/2}$) states is due to "uncoupling" (39), which arises from the M term in expansion of the L^2 operator. Further investigation shows that the J -dependent enhancement of the inelastic probabilities in the multistate calculations can be attributed predominantly to vibrational excitation of the H_2 molecule without excitation of the Cl atom and hence corresponds (Fig. 1) to transitions from the (${}^2\Sigma_{1/2}^+$) to the (${}^2\Pi_{3/2}$) PESs.

Integral cross sections are proportional to

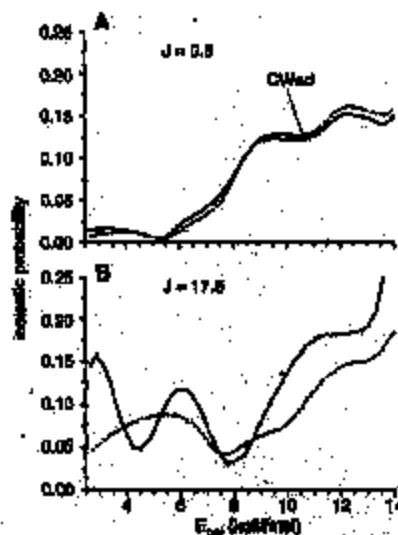


Fig. 3. (A) Solid curve indicates the inelastic transition probabilities for $Cl(j = 3/2) + H_2(v = j = 0)$ for $J = 0.5$, summed over all energetically accessible final states. The abscissa is the collision energy. Dashed curve indicates a similar sum, but divided by 2, of inelastic transition probabilities from single-state calculations on the CWad PES for $J = 0$. The abscissa is the collision energy. (B) Similar plot of the inelastic transition probabilities but for $J = 17.5$ ($J = 17$ for the CWad calculations).

the sum over J of the transition probabilities weighted by $(2J + 1)(2J)$. In general, as the collision energy increases, successively greater values of J contribute. Because the multistate reaction probabilities are increasingly depressed at higher J (compared to the single-state probabilities), we expect that the increase of the multistate reactive cross sections with increasing collision energy will be smaller than the prediction from single-state calculations on the CWad PES. This is indeed the case, as shown in Fig. 4.

In the experiments of Liu and co-workers (4-6), only the lowest three ($j = 0, 1$, and 2) rotational levels of H_2 are present in the beam. By weighting the cross sections out of each j level by the experimental populations of these levels, we can obtain reactive cross sections appropriate to the experiments with $p-H_2$ or $s-H_2$ (Fig. 5).

We observe, similarly to the transition probabilities, that the cross section for the adiabatically forbidden reaction of Cl in its excited SO state is small in comparison with that for reaction of the ground SO state, which is adiabatically allowed. Only at very low collision energy, where the adiabatically allowed reaction is throttled off by the large barrier, does the adiabatically forbidden reaction begin to dominate. This is a consequence of the greater internal energy of the excited SO state, which does, albeit inefficiently, allow the barrier to be surmounted. Figure 5 is qualitatively similar to our earlier predictions of the relative reactivity of the two SO states of the F atom (21).

Because the statistical degeneracy of the ground SO state of Cl is twice as large as that of the excited state, which is not taken into ac-

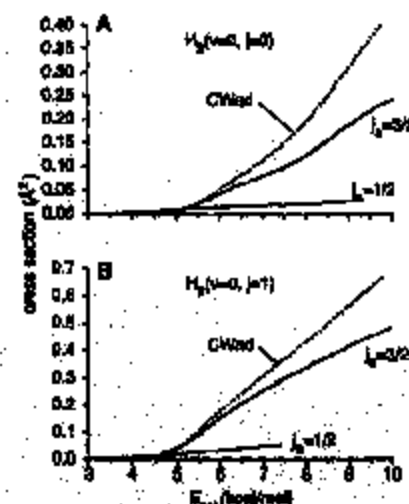


Fig. 4. Integral cross sections for reaction of Cl with $H_2(v = 0, j = 0)$ (A) and with $H_2(v = 0, j = 1)$ (B). Also shown are the predictions of single-state calculations based on the fully adiabatic (CWad) PES, divided by a factor of 2.

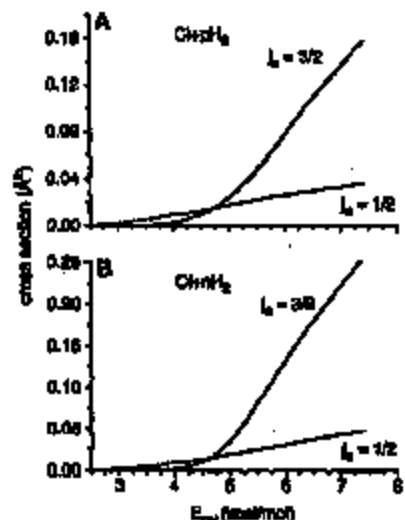


Fig. 5. (A) Integral cross sections for reaction of Cl in its ground ($j_g = 3/2$) and excited ($j_g = 1/2$) SO state with $p\text{-H}_2$. (B) Similar integral cross sections for reaction with $n\text{-H}_2$. The relative rotational state populations of the $j = 0, 1$ and 2 H₂ rotational levels were taken from (4–6).

count in Fig. 5, the observed reactivity of the excited SO state will be a factor of 2 less than predicted by Fig. 5.

We predict, fully in agreement with the body of available experimental evidence on other reactions (23, 26), that the adiabatically allowed [Cl($^2P_{3/2}$) + H₂] reaction will dominate the adiabatically forbidden reaction [Cl($^2P_{1/2}$) + H₂], except for collision energies below 5 kJ/mol. This prediction is in direct contrast with the recent work of Liu and co-workers (4–6). This disagreement is one of the major currently unsolved problems in the dynamics of elementary chemical reactions.

Although we predict the reactivity of the adiabatically forbidden channel to be small, we conclude that the breakdown in the BO approximation nevertheless plays an important role in the Cl + H₂ reaction. The coupling between the electronic-orbital angular momentum and the overall orbital motion of the reactants opens up a inelastic channel that competes with reaction. The predicted reactive cross sections are smaller than those calculated from more traditional treatments, in which these nonadiabatic inelastic processes are not taken into account.

We have shown that nonadiabatic processes influence the Cl + H₂ reaction dynamics in subtle and as yet not fully understood ways. In the ab initio calculations of Capozzi and Werner, the nonreactive Π states were characterized only in the reactant arrangement, where these states lie relatively close in energy to the reactive Σ state. It may be that additional electronic couplings at (or inside) the reaction barrier underlie the discrepancy with Liu's experiments. The need for further studies, both theoretical and experimental, is clear.

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Dynamic Aggregation of Chiral Spinners

Bertozzi A. Gryzbowski* and George M. Whitesides*

An object spinning at the surface of a liquid creates a chiral vortex. If the spinning object is itself chiral, its shape modifies the characteristics of the vortex; interactions between that vortex and other vortices then depend on the chirality of the objects that produce them. This paper describes the aggregation of millimeter-sized, chiral magnetized plates floating at a liquid-air interface and rotating under the influence of a rotating external magnetic field. This external field confines all the plates at densities that cause the vortices they generate to interact strongly. For one set of plates investigated, plates of one chirality attract one another, and plates of the other chirality repel other plates of both chiralities.

The properties and interactions of chiral molecules are a central concern in chemistry, with applications in chromatographic separations, asymmetric catalysis, and medicinal chemistry (1, 2). Chiral interactions between molecules are conceptually well understood

(3, 4). Interactions between chiral objects larger than molecules are, however, less well explored or exploited. Here, we describe a study of the interactions between millimeter-scale vortices generated in a fluid by the rotation of chiral objects floating at the surface of that fluid. This system has the characteristic that it is dynamic (5–10)—that is, fast interacting objects (the vortices) exist only when there is a flux of energy into the system—and that both the vortices and the objects that generate them are macroscopic. The system consists of magnetically doped

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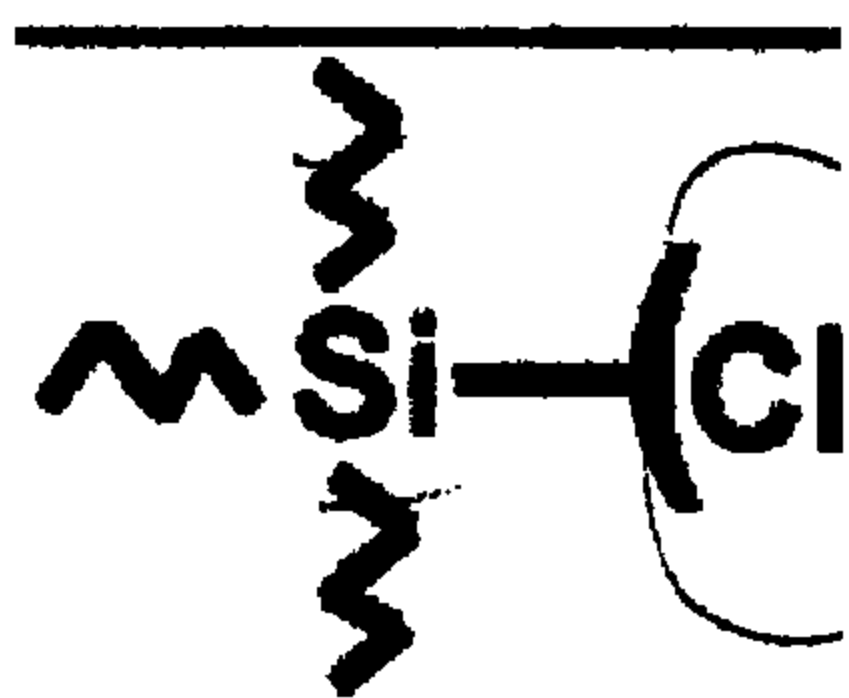
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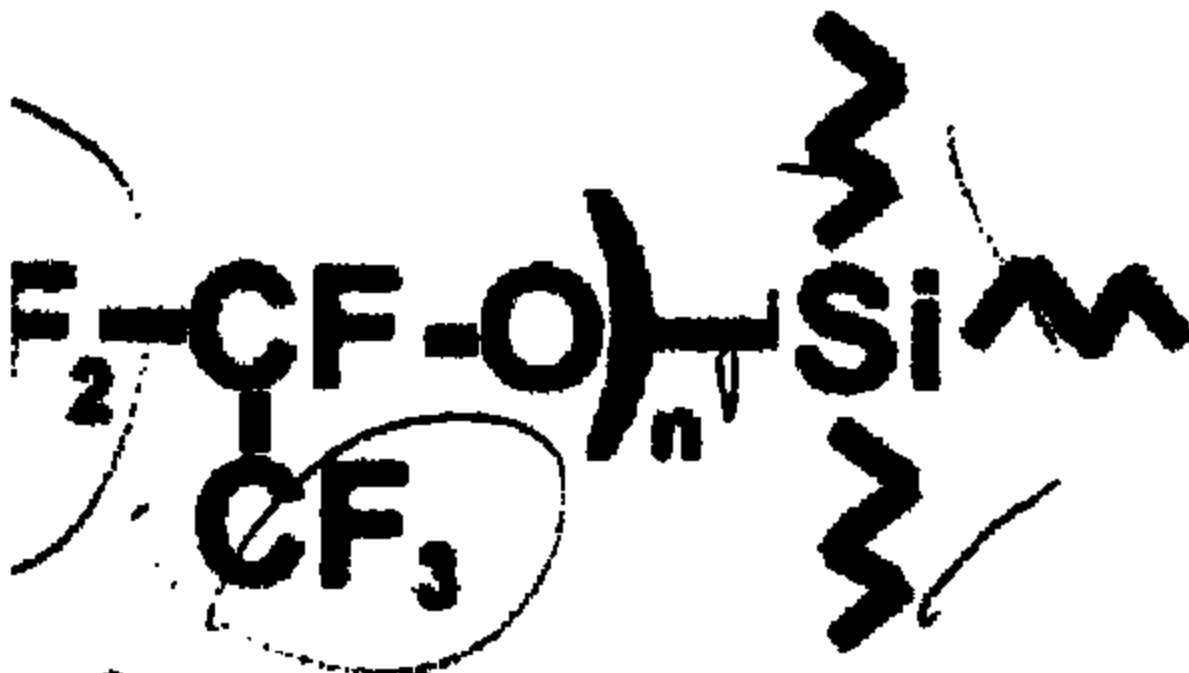
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- **Molding Pa**
- **Adhesive**
- **Coating**
- **Potting(Gel**
- **For many i**

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silicones.com/catal.htm

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form)

industries : Automobile

Aerospace

Electronics / Sem

Chemical Plant

Instrument

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10/10/10

iconductor

13/00/00

HTTP://WWW.DIA.MIL/DCU

WWW.SIEMENS.COM/SIEMENS

12/20/00

From: Park, Kyong [KPark@kavlico.com]
Sent: Thursday, April 25, 2002 4:57 PM
To: Freeland, Mark (M.)
Cc: jhanges@ford.com
Subject: RE: e-Mail

Never mind, I just received.
Thanks.
Kyong

From: Park, Kyong [KPark@kav/co.com]
Sent: Thursday, April 25, 2002 4:54 PM
To: Freeland, Mark (M.)
Cc: jhanges@ford.com
Subject: e-Mail

Mark,
John mentioned about e-mail he sent to me.
I never received yet. Just in case that he put wrong address, I wanted let John know.
However, I could not find his e-mail address.
Could you help me letting him know?
I do not even know whether John's address I put into the CC space above is correct. I just guessed.
Thanks.
Kyong

From: Park, Kyong [KPark@kavilco.com]
Sent: Tuesday, March 12, 2002 2:53 PM
To: Heliker, Grant
Cc: mfreela1@ford.com
Subject: Data requested

Grant,
Mr. Mark Freeland of Ford has requested "First Probe Data Set" for 2034109.
He said that he got the second probe data set from you for the same wafer.
Thanks.
Kyong

From: Peplone, Gil (J.)
Sent: Monday, July 01, 2002 2:32 PM
To: Jensen, Ted (T.E.)
Cc: Johnson, Jim (J.S.); Bilicki, John (J.R.); Corbett, Sandra (S.M.); Altoonian, Don (D.J.); Aynessazian, Kam (K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Rothweller, Daniel (D.); De Pena, Juan (J.E.); Diez, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grmas, Jeff (J.R.); Hansen, George (G.C.); Hart, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); McDonald II, John (J.M.); Jordan, Donald (D.E.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Limliaco, Steven (S.); Linda, Peter (P.A.); Liu, Jane (J.); Mandziuk, Roger (R.S.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tomko (T.T.); Morishima, Shigeki (S.); Nematollahi, Sonya (S.); Noteboom, Jim (J.E.); Ortman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Requepau, Alden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiraishi, Masaru (M.); Stigenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Lee (L.H.W.); Yeung, Lam (.); Benintende, Robert (R.F.); Goering, Kimberly (K.L.); Suarez, Rhae (R.); Terzes, Laura (L.D.); Martin, Mike (M.S.); Wexler, Mark (M.A.); Amely, Felix (F.A.); Bradley, Joe (J.C.); Linde, Peter (P.A.); Goering, Kimberly (K.L.); Terzes, Laura (L.D.); Benintende, Robert (R.F.); Wexler, Mark (M.A.); Amely, Felix (F.A.); Peplone, Gil (J.); DiAngelo, Rinaldo (R.); Peplone, Gil (J.); DiAngelo, Rinaldo (R.)

Subject: RE: PFQS's Investigation Results of Virgin Islands Escape Drivability Concerns

Hi Ted: I took the liberty of sharing my reply with all those previously cc'ed. This may influence the decision makers for the release for an Info Only Oasis Message, advising certain Markets {Caribbean, others??} to check for dirty fuel.

To answer your question : "During your visit did you visit any other OEM dealers?"

Answer; yes.

I took samples on two Islands, St. Thomas and St. Croix. The majority had dirty fuel.

As for your statement: "General fuel quality could be improved by a group effort through local governmental units and business groups."

I could not agree more. If the Dealerships receive an Oasis Message, this would lend weight to push for change, not to mention the happy customers and lower Warranty numbers.

Your other statement: "I would be very surprised if this were a Ford only issue."

Again, I agree. This is NOT a Ford Only Concern, since my samples were random.

Also note this quote from one Tech named "Yantle" at St. Thomas Metro Motors: "Gas is terrible on this Island".

Here's a proposed Oasis Message. Maybe you can assist me in getting some version of it generated??

Info Only Oasis Message XXX: All vehicle lines, engines. Drivability Concerns may be due to dirty fuel. Check for contamination by removing the fuel filter and blowing backwards to flow into a container, using shop air. Advise Owner to change fuel filling locations] as required. If filter is found restricted, replace. This is not a Warranty chargeable item, due to Owner choice of fuel usage.

This is just a framework. I am open to suggestions and improvements. Please advise. This includes those cc'ed.

Thank you,
Gil Peplone
Powertrain Field Quality Specialist-"PFQS" In
South Florida

Office/Answering Machine: 954-753-9989
Cell Phone 954-242-2066
"With Warranty you are Paying for the Sins of the Past"

-----Original Message-----

From: Jensen, Ted (T.E.)
Sent: Monday, July 01, 2002 8:50 AM
To: Peplone, Gil (J.)
Subject: RE: PFQS's Investigation Results of Virgin Islands Escape Driveability Concerns

Gil,

Fuel quality should be a common factor for all OEMs. During your visit did you visit any other OEM dealers? It would be very helpful to know the experience of others. General fuel quality could be improved by a group effort through local governmental units and business groups. I would be very surprised if this were a Ford only issue.

Ted

-----Original Message-----

From: Peplone, Gil (J.)
Sent: Thursday, June 27, 2002 2:11 AM
To: Johnson, Jim (J.S.); Bliick, John (J.R.); Corbett, Sandra (S.M.); Alkoonlan, Don (D.J.); Ayrnesazian, Kam (K.); Bauer, Scott (S.C.); Bhojwani, Kamel (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Chick, John (J.); Chih, Ming-Miu (M.N.); Chin, Daniel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Rothweiler, Daniel (D.); De Pena, Juan (J.E.); Diaz, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hoffman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jyunichiro (J.); Jensen, Ted (T.E.); McDonald II, John (J.M.); Jordan, Donald (D.E.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Limbaco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Mandzuk, Roger (R.S.); Marck, Edmund (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzola, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tomiko (T.T.); Morishima, Shigeki (S.); Nematollahi, Sonya (S.); Noteboom, Jim (J.E.); Ortnan, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Aiden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiraishi, Masaru (M.); Sillgenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (L.H.W.); Yeung, Lam (L.); Benintende, Robert (R.F.); Goering, Kimberly (K.L.); Suarez, Rhae (R.); Terzes, Laura (L.D.); Martin, Mike (M.S.); Wedder, Mark (M.A.); Amely, Felix (F.A.); Bradley, Joe (J.C.); Linde, Peter (P.A.); Goering, Kimberly (K.L.); Terzes, Laura (L.D.); Benintende, Robert (R.F.); Wedder, Mark (M.A.); Amely, Felix (F.A.)
Cc: Peplone, Gil (J.); DiAngelo, Renekio (R.); Borenber, Joel (J.R.)
Subject: PFQS's Investigation Results of Virgin Islands Escape Driveability Concerns
Importance: High

Good evening everyone:

Here's my report on my trip.

<< File: Results of Virgin Island Escape Decell Stalls Investigation.doc >>

I will be calling in on the Conference all at 2pm today.

Call-in Info: 1-877-870-3529 or Ford net 9-1-954-1144
International Participants: 1-830-893-1704
Passcode: 7673538, then hit #

I thank the Team for all their assistance.

Gil Peplone
Powertrain Field Quality Specialist-"PFQS" in
South Florida
Office/Answering Machine: 954-753-9989
Cell Phone 954-242-2066
"With Warranty you are Paying for the Sins of the Past"

From: Peppone, Gil (J.)
Sent: Thursday, June 27, 2002 9:38 AM
To: Johnson, Jim (J.S.); Billicki, John (J.R.); Corbett, Sandra (S.M.); Altoonlan, Don (D.J.); Aynessazian, Kam (K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Rothweiler, Daniel (D.); De Pena, Juan (J.E.); Diez, Timothy (T.P.); Faacetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Gilles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); McDonald II, John (J.M.); Jordan, Donald (D.E.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Lintisco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Mandziuk, Roger (R.S.); Marck, Edmond (E.C.); Mataea, John (J.); Maurer, James (J.B.); Mezzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tomiko (T.T.); Morishima, Shigeki (S.); Nematollah, Sonya (S.); Noteboom, Jim (J.E.); Ortman, James (J.W.); Powars, Ken (K.W.); Price, Martin (M.); Raquepau, Alden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiralsh, Masaru (M.); Stigenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Takasawa, Keith (K.D.); Takubo, Hirokichi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (L.H.W.); Yeung, Lem (L.); Benintende, Robert (R.F.); Goering, Kimberly (K.L.); Suarez, Rhae (R.); Terzas, Laura (L.D.); Marth, Mike (M.S.); Wexler, Mark (M.A.); Amely, Falx (F.A.); Bradley, Joe (J.C.); Linde, Peter (P.A.); Goering, Kimberly (K.L.); Terzas, Laura (L.D.); Benintende, Robert (R.F.); Wexler, Mark (M.A.); Amely, Falx (F.A.)
Cc: Peppone, Gil (J.)
Subject: RE: Inspection Sheet for St. Croix Vehicle Inspection

Good Morning: Mr. Jim Johnson informed me that he was unable to review the Inspection Sheet listed within my Summary Report on Escape Drive Concerns in the Virgin Islands. It appears my use of a "shortcut" prevented the icon's data transfer.

I am providing it here as an aid. Pls review as you see fit.



St. Croix Escape
Vehicle Inspe...

Gil Peppone
Powertrain Field Quality Specialist-"PFQS" in
South Florida
Office/Answering Machine: 954-763-9989
Call Phone 954-242-2086
"With Warranty you are Paying for the Sins of the Past"

-----Original Message-----

From: Peppone, Gil (J.)
Sent: Friday, June 14, 2002 6:50 PM
To: Dalbo, Bob (R.J.)
Cc: Sanders, Muriel (M.S.); Altoonlan, Don (D.J.); Moorhouse, Scott (S.R.); DiAngelo, Renaldo (R.); Peppone, Gil (J.)
Subject: RE: Inspection Sheet for St. Croix Vehicle Inspection
Importance: High

Hi Bob: ok, I will not.

Question: If I have high IAC DC, what should I do?

Clean the TB?

Turn the Throttle stop in to get o the desired 32% IAC DC?

If you want me to change the TB, I'm not prepared, since I d not have any, and I expect a long delay in getting TB from the States.

However, it would be good for my tan as I wait for them.....heh, heh.....

If you do want low air flow throttle bodies, maybe a batch (5-8??) could be sent directly to the Dealership Metro Motors in St. Croix??

Please advise via voice mail since I will be disconnecting my laptop soon for packing. But send a note away since I HOPE to be able to use my laptop there. Help desk promised, but you know how that goes.....

You can leave voice mail on both my cell and office phone. I can check the office # from afar.

I will do whatever you wish: I want to get the data we need, and not just fix these Units.

Gil Pepitone

Powertrain Field Quality Specialist-"PFQS" In

South Florida

Office/Answering Machine: 954-753-9989

Cell Phone 954-242-2066

"With Warranty you are Paying for the Sins of the Past"

-----Original Message-----

From: Dalbo, Bob (R.J.)
Sent: Friday, June 14, 2002 5:29 PM
To: Pepitone, Gil (J.)
Cc: Sanders, Muriel (M.S.)
Subject: RE: Inspection Sheet for St. Croix Vehicle Inspection

Gil,

Please don't drill out any throttle plates. For one thing, it's not approved practice, and for another, we'd like to get back any you have problems with.

Bob Dalbo

3.0L Calibration Supervisor

Outfitters Calibration, NAT

Phone: (313) 24-84847 Fax: (313) 32-31786

Pager: (313) 795-2859 Email: rdalbo@ford.com

-----Original Message-----

From: Pepitone, Gil (J.)
Sent: Friday, June 14, 2002 3:23 PM
To: Johnson, Jim (J.S.); Bilicki, John (J.R.); Corbett, Sandra (S.M.); DiAngelo, Renaldo (R.); Altonian, Don (D.J.); Aynessazian, Kam (K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Chick, John (J.); Chin, Ming-Niu (M.N.); Chin, Derral (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Rollmweiler, Daniel (D.); De Pena, Juan (J.E.); Diez, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.L.); Hoffman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jyunichiro (J.); Jensen, Ted (T.E.); McDonald II, John (J.M.); Jordan, Donald (D.E.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwan, Soon (S.K.); Limlaco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Mandziuk, Roger (R.S.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tomillo (T.T.); Morishima, Shigeki (S.); Nematoilahi, Sonya (S.); Noteboom, Jim (J.E.); Ortmann, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquapsu, Aiden (A.P.); Sanders, Muriel (M.S.); Shah, Kiron (K.C.); Shiralehi, Masaru (M.); Stillenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Lee (LHW.); Yeung, Leni (L.); Benintende, Robert (R.F.); Fernandez, Ruben (R.); Bradley, Joe (J.C.); Goering, Kimberly (K.L.); Suarez, Rhae (R.); Terzes, Laura (L.D.); Martin, Mike (M.S.); Wedder, Mark (M.A.); Amoly, Felix (F.A.)
Cc: Pepitone, Gil (J.)
Subject: Inspection Sheet for St. Croix Vehicle Inspection

Good afternoon everyone: I have included all those that I have been in continuous communication, plus all who are part of the "Escape Stalls Team" Conference Call which I have attended.

The file below contains the form I will use. This information is a result of the feedback I have received from Mr. Altonian, plus all existing Service Communications, both external and internal.

Please note that the items are ordered in such a way to allow me to leave the vehicle in its original state until I can replicate the Stalls Concern, if ever.

I intend on extensively driving these Units until I deem It Impossible for Concern replication.
At that point, I will perform any modifications to at least leave the Units at the latest repair level possible.

<< File: St. Croix Escape Vehicle Inspection Sheet.doc >>

FYI...

Gi Pepitone

Powertrain Field Quality Specialist-"PFQS" in
South Florida

Office/Answering Machine: 954-753-9989

Cell Phone 954-242-2066

"With Warranty you are Paying for the Sins of the Past"

**Escape Stalls Concern Vehicle Inspection Data
in St. Croix by Gil Pepitone 6/15/-6/24/2002**

Date:

Owner:

VIN:

M.Y.:

Mileage:

**Conditions during Owner's experience, including heavy
keys/radio towers?**

Calibration level:

**DTCs? If P1000, check OBD monitor status/measure KAM Pin 55
If OBD is dumb:**

DPFE level {2A07 or later}

MAF level {BA?}

Relay PN level OK? {White letters NG} /Terminals go/no go?

**PCM Hardware level/AXB &ATF1 Catch word is latest/ "160" or
"161"?**

Connectors/Grounds in order of inspection flow

C270b

G300

G104

G105

G101

C110

C133

G100

C270c

C270d

CPS plgtaf contacting A/C pulley?

Rattle Ignition key/engine cuts out?

Stabilized RPM Value in Park, Fan off, A/C off, no Purge flow, not prolonged Idle time:

Stablized IAC Duty Cycle Percentage in P/N, A/C off:

Does Engine stay running w/ IAC disconnected?

If so, what is base RPM?

TPS voltage {Bogle .9 +/- .05}:

Relationship of EVAP % value vs. FTP Voltage ok?

If no OK, what were values?

If relation not ok, did tapping on VMV make FTP voltage jump/engine's reaction?

Position of Flapper Valve ok?

PFQS drive results/Verified?

If verified, what were conditions?

Repairs/adjustments to vehicle:

H2O witness marks/Rust in Left Kickpanel?

Restricted EVAP line?/Blew out??

Replaced Flapper Vlv if web found?

New IAC D.C.?

Replaced TB?

Tightened any Ground/stalled connectors?

Changed DPFE?

Remove IAC/inspect for sludge/Oil in rear hole?

Changed IAC?

Changed MAF?

Cleaned DTCs?

Additional Comments:

From: Peppone, Gil (J.)
Sent: Thursday, June 27, 2002 2:11 AM
To: Johnson, Jim (J.S.); Blicki, John (J.R.); Corbett, Sandra (S.M.); Altonian, Don (D.J.); Aynessazian, Kam (K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Derrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Rothweller, Daniel (D.); De Pena, Juan (J.E.); Diaz, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jyunichiro (J.); Jensen, Ted (T.E.); McDonald II, John (J.M.); Jordan, Donald (D.E.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Lintlaco, Steven (S.); Linda, Peter (P.A.); Liu, Jane (J.); Mendziuk, Roger (R.S.); Marck, Edmond (E.C.); Matosa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Moonay, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tomiko (T.T.); Mortahima, Shigeki (S.); Nematollah, Sonya (S.); Noteboom, Jim (J.E.); Ortman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Aiden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiralshi, Masaru (M.); Stigenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Weitach, Bill (B.); Williams, Lea (L.H.W.); Yeung, Lem (.); Benintende, Robert (R.F.); Goering, Kimberly (K.L.); Suarez, Rhae (R.); Terzes, Laura (L.D.); Martin, Mike (M.S.); Wexler, Mark (M.A.); Amely, Felix (F.A.); Bradley, Joe (J.C.); Linde, Peter (P.A.); Goering, Kimberly (K.L.); Terzes, Laura (L.D.); Benintende, Robert (R.F.); Wexler, Mark (M.A.); Amely, Felix (F.A.)
Cc: Peppone, Gil (J.); DiAngelo, Ronaldo (R.); Berenter, Joel (J.R.); Surii, P. J. (P.J.); Noteboom, Jim (J.E.)
Subject: PFQS's Investigation Results of Virgin Islands Escape Driveability Concerns
Importance: High

Good evening everyone:

Here's my report on my trip.



Results of Virgin
Island Escap...

I will be calling in on the Conference all at 2pm today.

Call-in info: 1-877-870-3629 or Ford net 9-1-954-1144

International Participants: 1-830-693-1704

Passcode: 7673538, then hit #

I thank the Team for all their assistance.

Gil Peppone
Powertrain Field Quality Specialist-"PFQS" in
South Florida
Office/Answering Machine: 954-753-9989
Cell Phone 954-242-2066
"With Warranty you are Paying for the Sins of the Past"

**Results of St. Croix/St. Thomas Virgin Island
Investigation of 3.0L Escape**

Executive Summary

A total of 22 Concern Units were inspected by Powertrain Field Quality (PFQS) Gil Pepitone from 6/15-6/25/02.

18% of inspected vehicles with certain key Service Actions applied and containing uncontaminated fuel were fully resolved for the "Stalling during Deceleration" Concern, as reported by Owners.

The vehicle population which had prior repair attempts, {55%} did not have TSB/Oasis SSM Service repairs fully applied for various reasons, including test data mis-interpretation, component ordering wait time, WDS test equipment procedures/hardware issues, and "Repair Holds" for pending Engineering visitation.

However, 67% Units had **contaminated fuel and restricted fuel filters**, which may have been a **contributor** to the unverified Deceleration Stalling issue.

A second Driveability Concern {which included Units that contained the latest calibration level} of **Hesitation during moderate engine temp** was listed as a Concern for 32% of the Units. The Hesitation Concern was then verified and data /reviewed or recorded by PFQS. However, resolution was not determined. Local fuel volatility and/or PCM calibration may root cause, but this is speculation. Further investigation is in progress.

An omission of a Diagnostic procedure in TSB 02-8-6 was found, involving the requirement for a drive cycle in order to prompt the start of the Purge Cycle for proper EVAP System evaluation.

The surface blistering of multiple MAF sensor's plastic case was reported, with a sample captured.
A second MAF related issue of tight MAF retaining nuts resulted in airbox lid breakage.

A third MAF sensor related issue of missing Part Number Imprint was found on two Units.

Idle Air Control (IAC) Duty Cycles were found in 27% Units to be on the high end of the spec. In some cases, IAC replacements did not reduce DC. Also, there is a need for multiple improved IAC diagnostic procedures for TSB 02-8-6.

PFQS recommendations are listed at the end of this report.

Background

PFQS was contacted in early June to inspect and resolve the reported Decell Stalling Concern on a minimum of 10 3.0L 2001/02 Escapes on the Islands of St. Croix and St. Thomas, U.S. Virgin Islands. Both dealerships use the same name of Metro Motors.

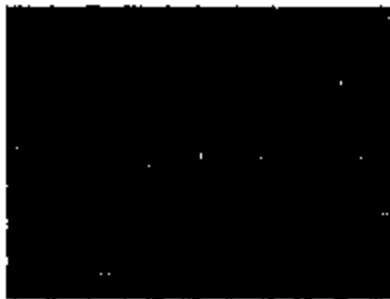


Figure 1 Metro Motors, St. Croix, VI

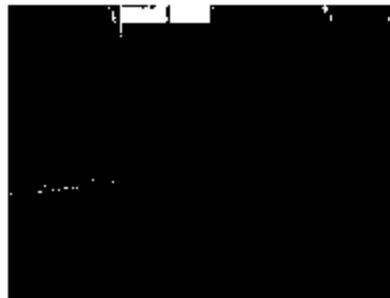


Figure 2 Burneta Matto, Service Manager



Figure 3 Isaac, Driveability Technician



Figure 4 Service area at Metro Motors



Figure 5 Service area, alternate view

A review of Service records and Oasis repair histories as compared to the actual PFQS inspection of the 22 Units, indicated that corrective Service procedures were only partially performed on 55% of Units.

However, 18% of Units had been fully serviced per the existing Service Communications.

The remaining percentile involved Units which had not been to the Dealership for the Decell Stalls Concern prior to the Inspection period.

Both Islands are small (St. Croix, the larger, is 28x7 miles). The terrain is very hilly, with some considerable grade angles. The

Concern of Decell Stall for 3.0L Escape is reported as most common in uneven topography as evidenced from a prior PFQS review of North American CQIS data.

Of the 22 Units inspected, 20 were at the St. Croix location, while two were done in St. Thomas. A total of four Units were originally scheduled for St. Thomas, but two were no-shows. The majority of this report's data stems from the St. Croix Dealership.

Investigation of Decell Stall

PFQS arrived on Saturday, 6/15. Basic inspection and VDR recorder Drive Testing began that day and throughout the weekend for the three high priority Units as designated by the Dealership.

PFQS's original plan was to first verify the Drive Concern, but soon realized that Concern replication was difficult. None of the Units ever exhibited a Stall in any drive mode during PFQS use.

On 6/17, the Inspection worksheet,



Showcut to St. Croix Escape Vehicle Inspection Sheet link

, was started to be used.

Over the course of the investigation, some Units {18%} had arrived to the Dealership that had been "Owner Determined" as **resolved because of prior service actions** performed by the St. Croix Metro Motors.

Being a small Island, word of the "Ford Rep" presence prompted some Owners to return to the Dealership for a "Health Check" on their prior resolved Units.

Only one Unit was found by PFQS with the known Concern of "spider web" EVAP line restriction.

As cited, some Units had only part of the necessary Service actions completed. Also, interpretation of some data was either misunderstood, or the existing TSB diagnostics required additional

description. On this last point, details are provided throughout Sections below.

Fuel Quality Issues

The first priority Unit Investigated was described as having a different Drive Concern of "Hesitation after Cold Start".

Note that this Unit did **NOT** have the Concern of **Decell Stall** as part of the original listed complaint.

The heavy hesitation (lasting about 3 seconds) from a dead stop on a 30 degree upgrade acceleration, during a moderate engine temp range (approx 100F-160F) was replicated by PFQS. A fuel gauge had been installed along with a WDS VDR recorder. All parameters, including both fuel pressure and volume were confirmed as acceptable.

However, because this was a Returnless Fuel application, PFQS felt that his old method to check volume (filling 12oz bottle in 15 sec at Idle) may not be valid.

As a result, the fuel filter was removed and blew backwards into a glass bottle:

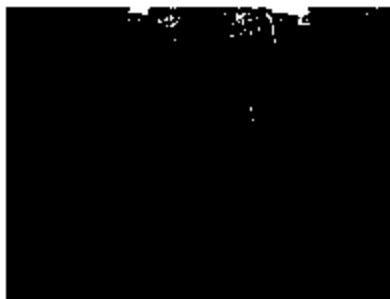


Figure 6 Contaminated fuel, after sitting overnight



Figure 7 Bottom view of the fuel sample-Nasty Stuff



Figure 8 This is the fuel sample after the bottle is shaken, not stirred. This is what it looks like after you blow out the fuel filter.

PFQE then realized that perhaps local fuel is a negative influence in the generation of Decell Stalls, as well as possibly contributing to the Hesitation Concern.

From that point on, every Unit was inspected for restricted fuel filter/dirty fuel. 67% of Inspected Units had restricted fuel filters and dirty fuel.

However, 32% of the Units which had "Complete Service Actions" {see below}, PLUS a new fuel filter, were STILL verified by PFQS for the Hesitation Concern.

Note that the latest PCM flash is included, and this includes some Units of which had the latest PCM Flash prior to PFQS visitation: the need for Adaptive Learning Strategy was NOT a factor for some of the repeatable Hesitation Concern Units.

It appears that the replacement of the restricted fuel filter did not resolve the Hesitation Concern.

However, filter replacement may be a positive factor in resolving the Decell Stalls Concern.

In defining "Complete Service Actions", PFQS includes a PCM Reflash to the latest available calibration level, the latest level EEC Relay, the latest level DPFE, a complete check of ALL grounds and connectors, proper evaluation of the EVAP Purge D.C. vs. FTP sensor voltage data and conformation of acceptable IAC D.C. values when observed during the PROPER conditions. Note that MAF replacement is not included unless the Owner cited a specific,

repetitive location during the Decell Stall event, implying local electrical "noise" generation (i.e. radio towers, etc).

New Concern of Moderate Engine Temp Hesitation discovered

PFQS then concluded: this repeatable Hesitation Concern could possibly be caused by one of two Items, or perhaps both.

- a. Local Fuel Quality {suspect volatility, not just the "dirt factor"}
- b. PCM Calibration

Please note that PFQS has no proof to indict either suspected root cause. PFQS is in communications with the St. Croix Service Manager for feedback of alternate fuel brand usage as recommended in an attempt to resolve those Units with the unresolved Hesitation Concern.

PFQS welcomes Engineering feedback on possible calibration issues and is willing to assist further.

In addition, a VDR recording was captured in this Hesitation drive mode on 6/25 on one Unit, which had all "Complete Service Actions" and a clean fuel filter. This data will be shared with Engineering in the very near future.

Procedural Omission in TSB 02-8-6

The Repairing Tech described the following prior repair effort.

The Tech stated that while following Step #4 of the above TSB, the EVAPVM {VMV Duty Cycle} percentage was not seen to change from Zero % at idle {as specified by the TSB} after a one hour idle.

PFQS was able to replicate this scenario on the same Unit and also for a second Unit. The fuel tanks were above ¼ full.

During discussions with Engineering during his visitation, it was suggested that the vehicle be driven to prompt the Purge Process. As a result, the purge cycle started to increase.

While Step #4 described Purge Cycle function over 84%, it's diagnostic do not describe what must be done if the value does not change from Zero% while at prolonged idle.

The Tech's interpretation of the lack of VMV Duty Cycle change from Zero % at idle resulted in the ordering of a VMV. The Tech mentioned that if VMV replacement did not prompt a purge cycle DC increase from Zero%, a PCM would have been considered for order. Potential TNI Warranty for both the VMV {9C915} and the PCM {12A650} exists.

MAF and Related Hardware Issues

Three different issues were experienced during this inspection. Pls note that none involved the actual FUNCTION of the MAF. DTCs were NOT set, nor were inappropriate MAF voltage values witnessed.

However, Warranty, TNI and Real, have been generated as a result.

Item #1: The Tech described prior MAF replacements based upon the observation of the blistering of the MAF's Sensor's Surface:

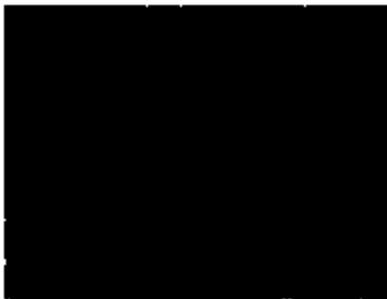


Figure 9 Blister on the MAF sensor's Case

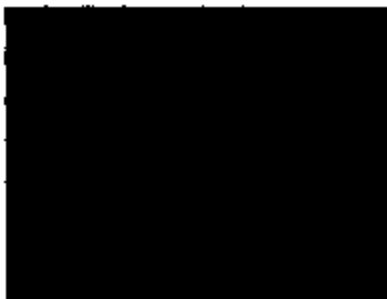


Figure 10 Close up of the Blister

The Tech cited two replacements. The Parts Dept search only produced the one item photographed here. The Tech said the other one was "worst" with multiple blisters present.

Item #2: During PFQS inspection, one of the 3.0L Escapes MAF was found to be missing the imprinted part number on the sensor's plastic body:

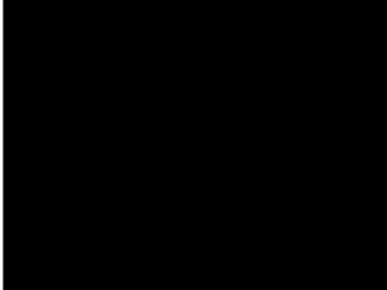


Figure 11 MAF without a Imprinted part number

A second Unit, a lone 2.0L Zetec Escape was presented for inspection. This Unit (which was not supposed to be part of the Study) was reviewed as a courtesy. It too did not have a PN imprinted on it. It was not replaced. However, the Tech felt it should be, because of the uncertainty of the level of the MAF component. This indicates that TNI Warranty may result for MAF due to the missing PN.

Item #3: During the removal of the MAF for one Unit for updates per the TSB (Owner reported Stalls in one particular location), the retaining nuts were found very tight. Hand tools, not power tools were used.

During the attempted removal, the studs started to unscrew from the airbox lid. One of the plastic bosses of the airbox stud broke as a result:

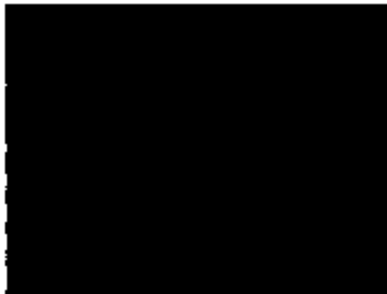


Figure 12 Airbox lid that contains MAF retaining studs



Figure 13 As stud walked out, it broke the case's boss



Figure 14 This is the rear view of the case's boss



Figure 15 A second stud walked out, but the case did not break. The witness marks are pliers on the threads.

At first PFQS suspected the nuts as over torque. A subsequent inspection found "Lock Tite" substance on the fine thread end of the studs. It is possible the adhesive is too strong.

As these MAFs are being replaced per the TSB, it is possible Warranty will be generated for the YL8U-9643-BC Airbox Lid.

Intake Airflow Control (IAC) Solenoid Duty Cycle Value Results

As part of requested Engineering data, IAC Duty Cycle values were monitored per Step #1 of TSB 02-8-6. Note that awareness of proper

conditions to determine acceptable IAC D.C. were not understood by all repair Techs interviewed. While IACs had been replaced on some Units, those were probably changed mainly as part of a general repair attempt, and not necessarily due to data acquisition.

As a result, some repeat Concern Units {46%} required IAC and in some instances, Throttle Body {TB} replacement.

Pls note, however, TBs were not available at the Dealership, and Engineering shipment did not arrive during PFQS visitation. The Engineering shipment of IACs did arrive and most were used.

Idle Air Control {IAC} Duty Cycles were found in 27% Units to be on the high end {greater than 40%} of the allowable spec.

30% of Units with IAC replacement did NOT realize a substantial change {less than 1%} for IAC D.C. value.

Other Units {8%} realized a desired small decrease in D.C., but their final value was still above acceptable range of 40% per the TSB, which would then require a TB replacement.

The high airflow D.C. after IAC replacement indicates either initial throttle body airflow set and/or plate sludge build-up.

Mileage range for unchanging D.C. values after IAC replacement were 2K-18K.

If the pending shipment of TBs arrive at Metro Motors St. Croix, PFQS is to be contacted. Concern Units will be requested for return and their TB will be replaced and then sent to PFQS, who in turn will return same to Engineering.

Additional IAC Diagnostic Improvements are provided below in the Recommendations Section.

Recommendations

1. A Market directed "Info Only" Oasis Broadcast Message should be generated to emphasize fuel filter/fuel quality as part of routine inspection when diagnosing all Driveability Concerns. Locations could include the Caribbean Islands and other

Markets were local Service Facilities practices come into question.

2. A review of TSV 02-8-6, Step #4 should be conducted for consideration of the inclusion of a drive cycle prior to inspection of EVAP Purge VMV Duty Cycle values. This drive cycle would only be used for those Units which do not show an increase from 0% at idle. A time factor should be provided to aid the Tech on when he should perform the drive cycle.
Also, if fuel tank level is an influencing factor for valid EVAP evaluation, an acceptable fill range should be included in any TSB revision.
3. The three issues cited which involve MAF should be investigated by Ford Engineering and Visteon. MAF Sensor blistering, missing MAF PNs, and tight MAF retaining nut on airbox studs are subject.
4. A review of TSB 02-8-6, step #1 should be conducted to clarify and emphasize the definition of "no purge flow". This subtle reference was overlooked by all Techs interviewed. Specific reference, similar to Step #4 wording, which involves a PID definition and values {i.e.: observe IAC D.C. while EVAPVM is Zero%} is necessary to enable ALL Techs to properly diagnose the true need for IAC replacement.
If there is confusion, the part will be replaced on an assumption, and not the result of data acquisition.

Also, the converse is true: some Units will quickly START the purge cycle, before IAC D.C. could be read under proper conditions. A work around can be done by shutting off ignition and immediately restarting, and then waiting for all other conditions {RPM to return to 750} to be proper before reading IAC D.C. This additional procedure should be considered for inclusion to any TSB revision.

A reference to the Catalyst Protection of a 50 RPM Increase for a base idle of 800RPM should be included. Also, instructions to apply throttle briefly to reduce this RPM value to return to 750

RPM is necessary to allow the Techs to determine true IAC D.C. and is recommended for TSB revision inclusion.

5. A review for the need to spray insect/spider removal agent should be conducted. It is conceivable that the above TSB's Step #5 will temporarily remove a spider from the EVAP fresh air line, but there is nothing to prevent the return of another spider. Should we use something to stop the potential cycle of web build up?

I will be calling into the "Escape Stalls Team" 2PM conference call on 6/27/02 to discuss my Inspection.

Gil Pepitone
Powertrain Field Quality Engineer in

South Florida

gpepito@ford.com
Office 954-753-9989
Cell 954-242-2066

From: Pepitone, Gil (J.)
Sent: Friday, June 14, 2002 3:23 PM
To: Johnson, Jim (J.S.); Bilicki, John (J.R.); Corbett, Sandra (S.M.); DiAngelo, Renaldo (R.); Altoonlan, Don (D.J.); Aynessazian, Kam (K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Rothweiler, Daniel (D.); De Pena, Juan (J.E.); Diaz, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hoffman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); McDonald II, John (J.M.); Jordan, Donald (D.E.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwan, Soon (S.K.); Lintiacio, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Mandziuk, Roger (R.S.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tomiko (T.T.); Morishima, Shigeki (S.); Nematollahi, Sonya (S.); Noteboom, Jim (J.E.); Ortmann, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Requepau, Aiden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shraiehi, Masaru (M.); Stigenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Veenstra, Tim (T.W.); Wakanall, Ray (R.A.); Wettach, Bill (B.); Williams, Les (LHW.); Yeung, Lem (L.); Benintende, Robert (R.F.); Fernandez, Ruben (R.); Bradley, Joe (J.C.); Goering, Kimberly (K.L.); Suarez, Rhae (R.); Terzes, Laura (L.D.); Martin, Mike (M.S.); Waxler, Mark (M.A.); Amely, Felix (F.A.)
Cc: Pepitone, Gil (J.)
Subject: Inspection Sheet for St. Croix Vehicle Inspection

Good afternoon everyone: I have included all those that I have been in continuous communication, plus all who are part of the "Escape Stalls Team" Conference Call which I have attended.

The file below contains the form I will use. This information is a result of the feedback I have received from Mr. Altoonlan, plus all existing Service Communications, both external and internal.

Please note that the items are ordered in such a way to allow me to leave the vehicle in it's original state until I can replicate the Stalls Concern, if ever.

I intend on extensively driving these Units until I deem it impossible for Concern replication.

At that point, I will perform any modifications to at least leave the Units at the latest repair level possible.



St. Croix Escape
Vehicle Inspe...

FYI...
Gil Pepitone
Powertrain Field Quality Specialist-"PFQS" in
South Florida
Office/Answering Machine: 954-753-9989
Call Phone 954-242-2066
"With Warranty you are Paying for the Sins of the Past"

**Escape Stalls Concern Vehicle Inspection Data
In St. Croix by Gil Pepitone 6/15/6/24/2002**

Date:

Owner:

VIN:

M.Y.:

Mileage:

**Conditions during Owner's experience, including heavy
keys/radio towers?**

Calibration level:

**DTCs? If P1000, check OBD monitor status/measure KAM Pin 55
If OBD is dumb:**

DPFE level {2A07 or later}

MAF level {BA?}

Relay PN level OK? {White letters NG} /Terminals go/no go?

PCM Hardware level/ "160" or "161"?:

Connectors/Grounds in order of inspection flow

C270b

G300

G104

G105

G101

C110

G133

G100

C270c

C270d

CPS plgtall contacting A/C pulley?

Rattle Ignition key/engine cuts out?

Stablized RPM Value in Park, Fan off, A/C off, no Purge flow, not prolonged Idle time:

Stablized IAC Duty Cycle Percentage in P/N, A/C off:

TPS voltage {Bogle .9 +/- .05}:

Relationship of EVAP % value vs. FTP Voltage ok?

If no OK, what were values?

If relation not ok, did tapping on VMV make FTP voltage jump/engine's reaction?

Position of Flapper Valve ok?

PFQS drive results/Verified?

If verified, what were conditions?

Repairs/adjustments to vehicle:

H2O witness marks/Rust in Left Kickpanel?

Restricted EVAP line?/Blew out??

Replaced Flapper Vlv if web found?

Drilled out TB plate holes? If so, what size drill bit?/New IAC D.C.?

Tightened any Ground/stalled connectors?
Changed DPFE?
Changed IAC?
Changed MAF?

Additional Comments:

From: Perry, Brian (B.J.)
Sent: Thursday, May 16, 2002 12:08 PM
To: Gates, Freeman (F.C.); Poma, Amy (A.); Plants, Paul (P.G.); Freeland, Mark (M.)
Cc: 'Jahshan, John (J.H.)'
Subject: RE: Issues resolution meeting data

I do not see it as our responsibility to champion gathering environmental data on the DPFE system. We have no expertise in this since we have never been even remotely involved on any other programs.

This needs to be coordinated between EGR systems, Engine systems and the program PT team.

We are not part of the PT that everyone is referencing here. These are application specific teams that work in the CBG's. We do not work for the CBGs.

I don't want to give the impression we are not a team players, however we can't absorb tasks that our activity has no involvement or prior experience in.

Brian J. Perry
Supervisor - C170, D231 & Outsourced Control Systems
GCE-PCSE-Powertrain Electronic Applications
Phone/Fax: (313) 39-04170
Cube AP-062 POEE MailDrop 75

-----Original Message-----

From: Poma, Amy (A.) [mailto:apoma2@ford.com]
Sent: Wednesday, May 15, 2002 9:18 AM
To: Gates, Freeman (F.C.); 'jjahshan@visteon.com'
Subject: Issues resolution meeting data

John, Brian, Freeman:

John, I advised Paul of our conversation at yesterday's meeting in that you spoke with Brian regarding getting the pressure, pulsation and temperature information requested. Please see his response noted below: Please advise if there is still a problem. Thanks.

*Amy pass on to these (3). If they need further explanation, ask at Thursday team meeting or call Me.

Brian/John/Freeman: The issue was getting pressure and temperature data associated with the sensor. PT traditionally has that data thru vehicle testing in Arizona (APG) or other sites. We are trying to make use of existing data to minimize the work. John is the ONLY PT rep at our meetings. I need John or Brian to lead and coordinate this work. It is NOT electronic work, but again it is PT. Can you get the right PT people to supply this data ASAP?"

John, can you please forward this to Brian, I'm unsure of his email address. Thanks.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CQ-156

EAB2-027-G 15004

phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

From: Plante, Paul (P.G.)
Sent: Friday, July 12, 2002 10:56 AM
To: Awad, Mahmoud (M.I.)
Cc: Janda, Jon (J.M.); Poma, Amy (A.); Freeland, Mark (M.); Maurer, James (J.B.)
Subject: Repeat Repair Data-Meeting Notice 7/22/02

Mahmoud, Mark has asked to rereview this data. You are the assigned RIE expert. When you return from vacation I want to add this to the Monday 1:00 PM meeting agenda for 15 minute discussion. Please bring copies of the data and your/Quality Office conclusions as to what the data means. You can present on your own or bring Greg McCliment, your supervisor, your choice. This is relevant to Vehicle to sensor failure association, and fits the Monday forum.

Mark, I got your call. Kurt is replaced with Greg. I want M. Awad to lead the discussion on his data. Monday forum already exists to do this.

Jon, Mahmoud is back Monday 7/15 I think. That is too soon to schedule this, try for 7/22.

ps I am on vacation 7/15/02.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-298-1906
E Mail: pplane@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Friday, June 21, 2002 1:30 PM
To: 'Park, Kyong'
Cc: Freeland, Mark (M.)
Subject: RE: Status

Thanks very interesting observations.

Mark, can you pass this on to Ed Sickafus please.

-----Original Message-----

From: Park, Kyong [mailto:KPark@kavlico.com]
Sent: Friday, June 21, 2002 11:31 AM
To: mfreelal@ford.com; pplante@ford.com; jmaurer@ford.com;
apoma2@ford.com; fgates@ford.com; Akins, Mary; Davies, Brady; Tackman,
Bruce; Ayers, Don; Ray, Randy
Subject: FW: Status

The attachment was dropped from the first transmission.

> -----Original Message-----

> From: Mike Strizich [SMTP:mstriz@analyticalsol.com]
> Sent: Thursday, June 20, 2002 6:08 PM
> To: 'Park, Kyong'
> Subject: RE: Status

>
> Mr. Park,
> Here is the second attempt at sending the letter. Hope you receive ok.
> Regards,
> Mike

> -----Original Message-----

> From: Park, Kyong [mailto:KPark@kavlico.com]
> Sent: Thursday, June 20, 2002 1:17 PM
> To: mstriz@analyticalsol.com
> Cc: mfreelal@ford.com; Davies, Brady
> Subject: Status

>
>
> Dear Mike,
>
> I wonder whether you have sent me any report about the issues we discussed
> over the phone.
>
> Please, let me know. We are looking forward to hearing from you.
>
> Thanks.
>
> Kyong
> <<corrosion notes.doc>>

From: Plante, Paul (P.G.)
Sent: Thursday, June 20, 2002 10:06 AM
To: Freeland, Mark (M.); 'ntallock@ic.net'; Maurer, James (J.B.); Awad, Mahmoud (M.I.)
Cc: Plante, Paul (P.G.)
Subject: RE: Assignment #58 - Failed DPFE

Comments:

1) It will be interesting to see if V Transient fix parts fail at the same rate as prior sensors. Mahmoud, is when would we have enough data to analyse this, I presume there is still too little to date. What is your opinion of early Parser data to date?

2) If they do fail, will we still not know the root cause of failure?

3) Was the V Transient fix supposed to make the sensor 100% robust to V Transients that could cause failure? It must have at least improved them, therefore if the V Transients are the root cause, failure rate should be lower. Should we make a system that 100% resists this V Transient failure mode, then test the sensor to see if it still fails? That would indicate that the sensor was the root cause, altho we still would not know what part of the sensor.

---Original Message---

From: Freeland, Mark (M.)
Sent: Thursday, June 20, 2002 9:46 AM
To: Akins, Mary (M.); Maurer, James (J.B.); Gates, Freeman (F.C.); Plante, Paul (P.G.)
Cc: Kyong Park (E-mail); Awad, Mahmoud (M.I.); Verner, Carol (C.I.); Janda, Jon (J.M.)
Subject: FW: Assignment #58 - Failed DPFE

For information,

Another post 1/7/2002 sensor on it's way back for testing. That makes 6 that I have physically received to date. I will report on findings when I get it.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

---Original Message---

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 20, 2002 8:50 AM
To: Freeland, Mark (M.)
Subject: FW: Assignment #58 - Failed DPFE

---Original Message---

From: Donika, John (J.J.)
Sent: Wednesday, June 19, 2002 11:27 PM
To: Lovelace, Maria (M.E.)
Subject: Assignment #58 - Failed DPFE

==>

Rpt#: 2FSG8001 CQD Rpt: 06/19/2002 Odorn: 3,355 M
Rvw: File: Folder: Images: 0 Print Smy/Disp Detail(P/D):
Vehicle: 2002 WINDSTAR,4X2 ,WAGON 2FMZA52432BB55581 Bld: 04/28/2002
Engine: 3.8L EFI F Calb: 2A31ZC0A Trans: 4F50N Axle: FWD 3.56 A/C: YES
Dealer Id: 45262 HERTZ RAC - DETROIT Ph#:
State: Michigan City: Romulus Orig/Caller: JOHN DOMKA
Symptom: 6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,NOT LISTED
Addl Sym: St CCRG/EPRC: Rvw: Dt
Fix: Caus. Comp: SENSOR ASY EGR PR VL - RPL Condition Code: H5

Region Code: CC Region Name: Rental - CC

CONCER CHECK ENGINE LIGHT ON
REPAIR CODE P0401 - EGR INSUFFICIENT FLOW - REPLACE SUSPECT DPFE SENSOR,
ISSUE CORRECTED. SUSPECT DPFE WILL BE GIVEN TO MARK FREELAND
DPFE BUILD DATE 2D09B
MICHIGAN FQE - JOHN DOMKA
313-433-7910

F1 Help F3 Exit F4 Last Cmts F5 Add Cmts F8 Add Fldr
F7 Bkwd F8 Fwd F9 Ind Corr F10 Next Rpt F11 Prev Rpt F12 Return
I0018-BOTTOM OF DATA LPENJBD

Thanks,

John J. Domka

Field Quality Engineer
Enhanced Concern Identification
Ford Customer Service Division

jdomka@ford.com
Phone 313-433-7910
FAX 734-475-9110

From: Plante, Paul (P.G.)
Sent: Thursday, June 13, 2002 8:31 AM
To: Poma, Amy (A.); Janda, Jon (J.M.); Rossi, Roberto (R.A.); Plante, Paul (P.G.)
Cc: Maurer, James (J.B.); Gatas, Freeman (F.C.); Freeland, Mark (M.)
Subject: Mirzias and Agenda for DPFE Vehicle Team Meeting

Monday 6/10 Meeting Overview for 14D Team:

- 1) J. McCoy/A. Poma to hand out vehicle test plan including vehicle consensed instrumentation and w/ settings.
- 2) John Johshan Focus vehicle (Vin#0555): Issue was discussed and it was noted that the current spike documented on the V Ref line was not obtained with the correct instrumentation or settings to ensure that it was real to the vehicle and not just improper instrumenting technique. Team agreed to stop investigation of this spike, instrument the car properly and continue testing. Is-Is Not to be filed out by John, and discussed Monday.
- 3) Hussein Bina Focus Car: Vehicle had (2) failed sensors from 9/00 MOP. Discussion lead to agreement that these sensors had high probability of both failing due to MOP, the car is a private owner, and we are already testing Focus vehicles, but need other product lines as well. Conclusion was to not test this car.
- 4) Alan Ford Focus buy back is complete and now owned by V Engine. It is waiting for instrumentation.

Monday 6/17/02 Agenda:

- A) Vehicle Test Plan Overview-J. McCoy/A. Poma
- B) Is-Is Not Sheet Overview-Jon Janda
- C) EESE Comments on Wiring Issues-Keith Frazier
- D) Dyno and Labeco testing overview-Sro Akolkar
- E) Cigarette lighter wire bundle affect on DPFE Is-Is Not, R. Rossi
- F) Escape brake light switch wiring 12V short to 5V Is-Is Not, R. Rossi
- G) John Johshan Focus current spike issue Is Not, J. Johshan
- H) J1 connector Is Not, R. Rossi
- I) C90 connector Is Not, R. Rossi
- J) Walk Ins
- K) 14D team update issues
- L) Next Monday meeting agenda

Amy/Jon, suggestion: Use flip chart in meeting room to write down conclusions, assignments and next agenda items to get team consensus. There are many issues here with high technical content to track.

Robert Rossi: Please note that you and Keith have considerable issues on Monday 6/17 agenda, please come prepared.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-298-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Friday, June 07, 2002 10:05 AM
To: Freeland, Mark (M.)
Subject: RE: Media Reports of Focus Stalling

I think the message on NHTSA concerns for stalls is already out there. This one is interesting, but not engine related.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, June 07, 2002 9:47 AM
To: Plante, Paul (P.G.)
Subject: FW: Media Reports of Focus Stalling

Paul,
Should we forward this to the team for information.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Simko, Steven (S.J.)
Sent: Friday, June 07, 2002 9:02 AM
To: Freeland, Mark (M.); Hargas, Jon (.)
Subject: Media Reports of Focus Stalling

Mark,

I heard on the radio today that NHTSA is opening two investigations on Focus, one for engine stalls. The radio report quoted Clarence Ditlow, from the Center for Auto Safety, a plaintiff's attorney's clearing-house for lawsuits concerning auto safety. He is extremely good at stirring up negative publicity in auto safety cases. I checked the clipsheet this morning looking for more information about NHTSA's investigation and found the following article. It suggests plugged fuel lines as the cause for stalling (see highlighted region). I just thought you should know this information.

Steve Simko

Government opens new safety investigations into Ford Focus over engine, suspension

Associated Press Newswires 06/06/02
author: Nedra Pickler
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WASHINGTON (AP) – Safety officials have opened two new investigations into the Ford

Focus, this time amid complaints the engine can suddenly stall and the front suspension can collapse.

Hurd,
cannot
time.

The government has begun six investigations into the popular subcompact this year. Tim a spokesman for the National Highway Traffic Safety Administration, said Thursday he recall the government's ever having as many investigations into one vehicle at the same

Seventy-two people told NHTSA that the Focus stalled while they were driving, including seven who crashed. Seven people reported the front suspension control arm fractured while they were driving, leading to six crashes.

years,

The investigation into engine stall involves 574,700 cars from the 2000 and 2001 model the first two years of production. The suspension investigation also includes the 2002 model year.

The Focus is the country's fifth-best-selling car, trailing only the Honda Accord, Toyota Camry, Ford Taurus and Honda Civic. But it has been plagued with safety problems, already having been recalled eight times for problems ranging from faulty seat latches and windshield wipers to a throttle that can stick open.

Two of NHTSA's other open investigations involve possible air bag malfunctions, while the remaining were prompted by reports the rear wheel bearings could fail and the engine could catch fire.

NHTSA investigators said the alleged engine stall problem may be caused by debris accumulating in the gas tank, blocking fuel from being delivered to the engine.

were

NHTSA also is stepping up its investigation into nearly half a million General Motors Corp. vehicles after 28 crashes were blamed on a possible steering problem. More than 1,200 people have complained that the steering rack and pinion suddenly locked up while they driving.

Grand

The investigation involves the 1998 Oldsmobile Intrigue and 1997 models of the Pontiac Prix, Pontiac Tran Sport, Chevrolet Venture, Chevrolet Malibu, Oldsmobile Silhouette and Oldsmobile Cutlass.

The problem can cause the driver to lose steering control. GM reported six crashes in which eight people were hurt, but no injuries or deaths were reported in the other 22 crashes.

NHTSA opens any investigation with a preliminary inquiry, in which the agency and the manufacturer exchange paperwork. That is the stage of the Focus investigations.

vehicle in

The agency can upgrade the case to an engineering analysis if it wants to examine the detail for a possible safety defect. The GM investigation is in this stage.

NHTSA's investigations can lead to a recall, but many are dropped.

Spokesmen for Ford and General Motors would not comment on the investigations except to say the companies are cooperating with the agency.

NHTSA also opened a preliminary investigation into about 75,000 Toyota T100 pickups from

the

the 1983 through 1988 model years. Fourteen people have complained to the agency that clutch pedal mounting bracket or the firewall where it attaches will fracture while driving.

Increase.

The problem would stop the clutch from disengaging when the pedal is pressed and could cause the vehicle to move unintentionally, the engine to stall or stopping distances to

From: Plante, Paul (P.G.)
Sent: Thursday, June 06, 2002 9:00 AM
To: Freeland, Mark (M.)
Subject: RE: American Express Itinerary

Great follow up as usual. I think Keith can be a very valuable addition to the group. Your time with him is well spent.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, June 05, 2002 3:30 PM
To: Plante, Paul (P.G.)
Subject: RE: American Express Itinerary

Paul,

OK, agreed.

Keith Frazier just spent an hour and half with me getting up to speed. His personal vehicle may have a failing dPFE, and he would like to install the "simple" instrumentation set up in his vehicle. I will have Tim Potter make up a set for him.

Regards

Mark Freeland

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To: Janda, Jon (J.M.); Kyong Park (E-mail); Brady Davies (E-mail)
Cc: Jeff Helms (E-mail); Plante, Paul (P.G.); Maurer, James (J.B.); Hargas, Jon (.); Gates, Freeman (F.C.); Bryant, Bruce (B.D.); Kotwicki, Allan (A.J.)
Subject: FW: American Express Itinerary

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The focus of my trip is to review the parts from the High Current Acid, H2O2 and HO2 tests conducted to date and to plan next steps in the quest to recreate all of the field failure symptoms with lab tests.

I would propose that I plan to be at the plant at 8:30 am to give you time to take care of you're email etc.. Jon will let us know by tomorrow morning if he will be joining me.

Regards

Mark Freeland

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-----Original Message-----

From: sschindo [mailto:amexusa@mindspring.com]
Sent: Wednesday, June 05, 2002 11:34 AM
To: mfreelal@ford.com
Subject: American Express Itinerary

ITINERARY

PAGE NO. 1
PNR: 1P-2LRAG5

FREELAND/MARK-FORD MOTOR CO
PSGR 1-313-5947645
ETKT EMAIL

NAME : FREELAND/MARK

CUSTOMER NO. ACCOUNT NO. DATE
5100 000037438 0000601850 05JUN02

CO	DATE	CITY-AIRPORT	TIME	FLIGHT NBR/CLASS	ST	SERV/AMNT
A	SU 09JUN	LV DETROIT/METRO AR DENVER UA CONFO *XJTHDQ	605P 709P	UNITED 1905M	OK	OSTOP 737
			SEAT	11-B **RESERVED** FREELAND/MARK		
A	SU 09JUN	LV DENVER AR BURBANK UA CONFO *XJTHDQ	800P 919P	UNITED 1285M	OK	OSTOP 737

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CORPORATE ID-25501

CONFO-B8432744615
PICKUP-09JUN SUN/2119
RETURN-12JUN WED/0616

H SU 09JUN HYATT WESTLAKE PLAZA
880 S WESTLAKE VILLAGE BLVD
WESTLAKE VILLAGE CA 91361
PHONE-805-557-1234
FAX-805-379-9392
CONFO-HY0021502555

CHECK IN- 09JUN SUN/300PM
CHECK OUT-11JUN TUE/1200PM
GUARANTEED TO CREDIT CARD-VI

RATE GUARANTEED-USD

PREFERRED RATE GUESTROOM
RATE INFO-EFF 09JUN02 185.00
CANCEL RQMTS-CANCEL 24 HOURS PRIOR TO ARRIVAL
PERSONS INCLUDED IN RATE-1 CORPORATE ID-CR12642
NBRM

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BURBANK CALIFORNIA 91505
PHONE-818 843-6000
FAX-818 842-9720
CONFO-3145442668NSCONF

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CHECK OUT-12JUN WED/1200
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FREE SHUTTLE SERVICE

RATE GUARANTEED-USD

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CO	DATE	CITY-AIRPORT	TIME	FLIGHT NBR/CLASS	ST SERV/AMNT
H TU	11JUN	HILTON BURBANK AIRPORT			CONTINUED
		RATE INFO-169.00			
		CANCEL RQRTS-BY 0000 11JUN2002 LOCAL PROPERTY TIME			
		1 NIGHT STAY			
		PERSONS INCLUDED IN RATE-1		CORPORATE ID-N0002690	
		NSRM			
A WE	12JUN	LV BURBANK	616A	UNITED	574M OK SNACK
		AR DENVER	925A		0STOP 737
		UA CONFO *XJTHDQ			
			SEAT	11-E **RESERVED**	
				FREE/LAND/MARK	
A WE	12JUN	LV DENVER	1005A	UNITED	1405M OK
		AR DETROIT/METRO	240P		0STOP 757
		UA CONFO *XJTHDQ			
		UA1406 SEAT ASSIGNMENT AIRPORT CHECK IN			

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HAVE A PLEASANT TRIP

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FREELAND/MARK-FORD MOTOR CO
PSCR 1-313-5947645
ETKT EMAIL

EA02-827-G 18837

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CUSTOMER NO. ACCOUNT NO. DATE
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CO	DATE	CITY-AIRPORT	TIME	FLIGHT NBR/CLASS	ST SERV/AMNT
A SU	09JUN	LV DETROIT/METRO	605P	UNITED 1905M	OK
		AR DENVER	709P		0STOP 737
		UA CONFO *XJTHDQ			
			SEAT	11-B **RESERVED**	
				FREELAND/MARK	

A SU	09JUN	LV DENVER	800P	UNITED 1285M	OK
		AR BURBANK	919P		0STOP 737
		UA CONFO *XJTHDQ			
		UA1285-SEAT ASSIGNMENT IS AIRPORT CHECK IN			

C SU 09JUN HERTZ CONFO-B8432744615
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FAX-818 842-9720
CONFO-3145442668NSCONF
RATE GUARANTEED-USD
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H TU	11JUN	HILTON BURBANK AIRPORT			CONTINUED
		RATE INFO-169.00			
		CANCEL RQMTS-BY 0000 11JUN2002 LOCAL PROPERTY TIME			
		1 NIGHT STAY			
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A WE	12JUN	LV BURBANK	616A	UNITED	574M OK SNACK
		AR DENVER	925A		OSTOP 737
		UA CONFO *XJTHDQ			
		SEAT		11-E **RESERVED**	
				FREELAND/MARK	
A WE	12JUN	LV DENVER	1005A	UNITED	1406M OK
		AR DETROIT/METRO	240P		OSTOP 757
		UA CONFO *XJTHDQ			
		UA1406 SEAT ASSIGNMENT AIRPORT CHECK IN			

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From: Plante, Paul (P.G.)
Sent: Wednesday, June 05, 2002 11:32 AM
To: Rossi, Roberto (R.A.); Frazier, Keith (R.K.); Alles, Sheran (S.A.)
Cc: Gates, Freeman (F.C.); Frøeland, Mark (M.); O'Neal, Jim (J.D.); Maurer, James (J.B.); Plante, Paul (P.G.)
Subject: DPFE Sensor-EESE Issues-VP Meeting Notice

John Koszewnik has requested a VP level engineering review of EESE wiring issues associated with the DPFE sensor. This meeting will be set up by John's admin in early July. This note is advanced notice of that review. The objective of this meeting is to discuss and consense on wiring components involvement in the root cause of failure.

Key issues to be resolved involve:

- 1) Pareto of 21 vehicles with the same sensor, but greatly different failure rates
- 2) Repeat repairs on certain vehicles despite sensor replacements with different MOP.
- 3) Generic testing of vehicles to establish failure modes associated with current accepted design practices.
- 4) Noise factor management and specific case failures.

The Monday 1:00 PM Vehicle meeting is designed to resolve these issues.

Other concerns associated with the sensor such as V Engine ES Spec and Kavlico quality will continue to be investigated. All resolutions will be combined for a total issue fix.

Any issues related to delivering a report for this meeting such as manpower availability, vehicles for test etc. should be discussed as soon as possible with the sensor team.

Please pass this note on to your management.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

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ENG2-827-G 18841

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PSGR 1-313-5947645
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NAME : FREELAND/MARK

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5100 000037438 0000601850 05JUN02

CO	DATE	CITY-AIRPORT	TIME	FLIGHT NBR/CLASS	ST	SERV/AMNT
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HAVE A PLEASANT TRIP

*****KEEP TO USE FOR EXPENSE REPORT*****

From: Plante, Paul (P.G.)
Sent: Tuesday, June 04, 2002 11:29 AM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.); Awad, Mahmoud (M.I.); Plante, Paul (P.G.)
Subject: RE: Need some warranty data in presentation form

Sounds good, maybe we can extend this and use for 5 platforms for overall discussions.

Jim/Mahmoud lets discuss after you complete Mark's request.

Mark, I discussed your FRL review w/ John Koszewnik today. He is OK with it. He expressed that V Engine wants to keep your management aligned and invited to generic management presentations also. Your efforts on the sensor are appreciated. Lets review your presentation at 2:30 today w/ Jim M. and I.

---Original Message---

From: Freeland, Mark (M.)
Sent: Tuesday, June 04, 2002 11:23 AM
To: Awad, June (J.A.)
Cc: Plante, Paul (P.G.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Subject: Need some warranty data in presentation form

Mahmoud,

Could you please make me the following graphs in a format suitable for presentation to a director, I will need the graphs by close of business tomorrow.

For 2.0L Zetec Focus only:

- 1) (Second repair count/First repair count) v's Month of vehicle production (for 8/2000 through 1/2002)
- 2) Perado of top 10 components (i.e. Causal Part) for D21 symptom for vehicles manufactured 9/2000
- 3) Perado of top 10 components (i.e. Causal Part) for D02 symptom for vehicles manufactured 9/2000

Please include the raw data as well as the charts.

If this request needs clarification let's talk at the 1:00 today.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

Subject: FW: FRL Presentation-Sensor
Location: Paul Office

Start: Tue 6/4/2002 2:30 PM
End: Tue 6/4/2002 3:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Plante, Paul (P.G.); Bryant, Bruce (B.D.)

---Original Appointment---

From: Plante, Paul (P.G.)
Sent: Monday, June 03, 2002 5:34 PM
To: Plante, Paul (P.G.); Maurer, James (J.B.); Freeland, Mark (M.); Plante, Paul (P.G.)
Subject: FRL Presentation-Sensor
Where: Tuesday, June 04, 2002 2:30 PM-3:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: Paul Office

Discuss FRL Directors level meeting on Mark's Black Belt project.

Subject: FW: FRL Presentation-Sensor
Location: Paul Office

Start: Tue 6/4/2002 2:30 PM
End: Tue 6/4/2002 3:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Plante, Paul (P.G.); Bryant, Bruce (B.D.)

—Original Appointment—

From: Plante, Paul (P.G.)
Sent: Monday, June 03, 2002 5:34 PM
To: Plante, Paul (P.G.); Maurer, James (J.B.); Freeland, Mark (M.); Plante, Paul (P.G.)
Subject: FRL Presentation-Sensor
When: Tuesday, June 04, 2002 2:30 PM-3:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: Paul Office

Discuss FRL Directors level meeting on Mark's Black Belt project.

From: Plante, Paul (P.G.)
Sent: Wednesday, May 29, 2002 10:11 AM
To: 'Ed Sickafus'; Maurer, James (J.B.); Freeland, Mark (M.); Gates, Freeman (F.C.)
Subject: RE: comments on Ntelleck_I

Ed and Jim, intelligent questions and answers from both of you. I share your hope that A.S. will shed more light on the issue.

Ed, have fun in Alaska! I am going next summer. Let Me know how you liked it. Early June may be a bit cold, let Me know how the weather was, I did not pick a month, but most likely July. Too bad you will miss the Monday Vehicle discussion with KESR on some of these issues!

-----Original Message-----

From: Ed Sickafus [mailto:ntelleck@ic.net]
Sent: Tuesday, May 28, 2002 9:53 PM
To: James B. Maurer
Cc: Freeman Gates; Paul Plante; Mark Freeland
Subject: comments on Ntelleck_II

Jim has made some important observations that I have commented on. Please join the discussion and help to clarify, and maybe solidify, our understanding. It may be that I'm way off base for lack of certain knowledge. If so, let me know and I'll stop pestering.

Ed.

Hope you're feeling better, Mark.
I'm off to Alaska this Thursday am. Back in 11 days.

From: Plante, Paul (P.G.)
Sent: Thursday, May 23, 2002 10:53 AM
To: Poma, Amy (A.)
Cc: Janda, Jon (J.M.); Rossi, Roberto (R.A.); Maurer, James (J.B.); Freeland, Mark (M.); Frazier, Keith (R.K.); Plante, Paul (P.G.); Gates, Freeman (F.C.)
Subject: DPF Sensor Failure Monday Meeting Agenda

Amy, please add these items to agenda for 8/3/02, 1:00 PM and send official meeting notice to Keith Frazier (KFRAZIE1).

Main agenda item for 1:00 PM start: "EESE Issues Resolution for Is-Is Not", Robert Rossi and Keith Frazier lead.

Future agenda item: "Sensor ES Spec Robustness to V Transient Failures" F. Gates and Keith Frazier lead.

Keith, Jim Maurer, sensor team leader, and myself discussed this issue with Robert this AM. He will stop by your desk and update you and Tom Herman before the Monday meeting. We meet every Monday to discuss vehicle related failure modes for the sensor. There is no meeting Memorial day. Thanks in advance for your participation!

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Wednesday, May 15, 2002 2:13 PM
To: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)
Subject: Ed Sickafus Trip to A.S.

Bill McCarty confirmed OK to go per Kavlico.

Mark, contact him now and have him prep. He is on the list already that Freeman sent to Jim O. for approval.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Wednesday, May 15, 2002 12:29 PM
To: McCarty, Bill (W.D.)
Cc: Maurer, James (J.B.); Gatas, Freeman (F.C.); Freeland, Mark (M.)
Subject: Ed Sickafus Trip to Analytical Solutions

Ed is Ford agency person and recognised I.C. expert. I think he is required on this trip. Bill, is there still an issue w/ Kavlico? Ed needs to make plans to join the team NOW.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-298-1905
E Mail: pplante@ford.cm (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Monday, May 13, 2002 9:46 AM
To: Gates, Freeman (F.C.); Freeland, Mark (M.); Awad, Mahmoud (M.I.)
Subject: RE: Request for Melted DPFE's

Lets discuss at Monday 1:00 PM review. We will pursue if team agrees this issue affects us.

-----Original Message-----

From: Gates, Freeman (F.C.)
Sent: Monday, May 13, 2002 9:43 AM
To: Freeland, Mark (M.); Maurer, James (J.B.); Plante, Paul (P.G.); Awad, Mahmoud (M.I.)
Cc: Lovelace, Maria (M.E.); Sorensen, Lynn (R.L.)
Subject: RE: Request for Melted DPFE's

Team,

This is not a new failure mode. The cat would melt due to a known ignition concern. The resultant high backpressure would cause an exhaust leak and subsequent sensor failure. This was only evident on the 3.8L, however there was a similar concern on early 2001 3.0L Duratech Escapes. This was due to weld slag from the catalyst.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, May 13, 2002 9:35 AM
To: Maurer, James (J.B.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Awad, Mahmoud (M.I.)
Cc: Lovelace, Maria (M.E.); Sorensen, Lynn (R.L.)
Subject: FW: Request for Melted DPFE's

Team,

We may have a new failure mode to add to the 14 D.

Is it possible that the previously failed dPFE causes a cat. melt down, which causes high back pressure, which causes exhaust flow through the dPFE's seals and it melts?

Or the alternative hypothesis,

Something else causes the cat. to melt down, which causes high exhaust back pressure, causing exhaust flow through the dPFE's seals etc..

Mahmoud,

What can you find out about cat. melt downs on 3.8L Mustang from AWS?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Lovelace, Maria (M.E.)
Sent: Monday, May 13, 2002 7:55 AM
To: Freeland, Mark (M.)

EA82-027-G 15882

Subject: FW: Request for Melted DPFE's

Mark

a few comments from our FQE in Houston concerning DPFEs. Technician's comments

—Original Message—

From: Sorensen, Lynn (R.L.)
Sent: Friday, May 10, 2002 3:48 PM
To: Lovelace, Maria (M.E.)
Cc: Sorensen, Lynn (R.L.)
Subject: Request for Melted DPFE's

Maria, I have not seen one yer, but every technician that has had one indicated that it came from a 3.8L Mustang. The cause is simply a plugged Cat. converter that causes the exhaust to flow up through the DPFE and melts it down. No one has had one that wasn't a V-6 Mustang or that was caused by something other than a plugged converter. They have all been asked to save me one if they get one, but most haven't seen one for a couple of months..

R. L. (Lynn) Sorensen

Enhanced Concern Identification - FCSD
Field Quality Engineer...Houston, TX,
Office: 281-443-6582 Fax: 281-443-4206
Cell: 281-384-0617
lsorensen@ford.com

From: Plante, Paul (P.G.)
Sent: Friday, May 10, 2002 12:38 PM
To: Freeland, Mark (M.)
Subject: RE: INOP SBDS Systems

OK, I continue to like your thought processes, bring in Monday 1:00PM if you need discussion. Your flooding my already overloaded mailbox. Are some of these better left to Monday discussion or do they need advance thought or prep, your call??!!

---Original Message---

From: Freeland, Mark (M.)
Sent: Friday, May 10, 2002 10:57 AM
To: Maurer, James (J.B.)
Cc: Plante, Paul (P.G.); Gates, Freeman (F.C.); Maurer, James (J.B.); Awad, Mahmoud (M.I.); Perry, Brian (B.J.); McCoy, James (J.D.)
Subject: RE: INOP SBDS Systems

Jim,

Last night while I was doing my test drive on one of the Outside lab samples, I plugged in the NGST while the ignition was on. It caused a very large transient on Vref!!!! I have the data captured and will provide it when I get time to process it.

This may be relevant, possibly the act of hooking up SBDS may itself cause a latch to occur on some occasions, and explain why the tech. observed SBDS to be INOP.

Brian, any comments?

Regards

Mark Freeland

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---Original Message---

From: Maurer, James (J.B.)
Sent: Friday, May 10, 2002 10:12 AM
To: Freeland, Mark (M.)
Subject: RE: INOP SBDS Systems

I suspect that this is trying to tell us that the PCM is asleep and therefore not communicating with the SBDS (service bay diagnostic system). Could also be a defective PCM or connector. Usually serial communication link is inside the vehicle and not subject to normal moisture/corrosive environment.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3872, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

EP02-027-G 10004

---Original Message---

From: Freeland, Mark (M.)
Sent: Thursday, May 09, 2002 9:34 PM
To: Rossi, Roberto (R.A.)
Cc: Plante, Paul (P.G.); Gates, Freeman (F.C.); Maurer, James (J.B.); Awad, Mahmoud (M.I.); Perry, Brian (B.J.)
Subject: INOP SBDS Systems

Roberto,

I have seen a number of instances of "INOP SBDS System" at the same time as trouble with dPFE's.

Please check out the 3/26/2002 repairs on VIN # 1FAFP55U11A136704 for an example.

Could there be any link between an INOP SBDS and a transient voltage concern?

Regards

Mark Freeland

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Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

From: Plante, Paul (P.G.)
Sent: Friday, May 10, 2002 12:34 PM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: RE: VIN 1FMCU01191KF33260

Monday 1:00 PM for team resolution. See how easy this is, just dump everything associated with cars into this forum until people are so sick of hearing this, they take action or quite the team all together.

---Original Message---

From: Freeland, Mark (M.)
Sent: Friday, May 10, 2002 11:58 AM
To: Maurer, James (J.B.); Gates, Freeman (F.C.); Plante, Paul (P.G.); Awad, Mahmoud (M.J.)
Subject: VIN 1FMCU01191KF33250

Mahmoud,

Could you please pull this vehicle's history and give copies to the others on this note. Thanks

All,

Please review the vehicle history for this 3.0L Escape.

On 5/26/2001 this vehicle had the PCM reprogrammed for unexplained stalls, on 11/7/2002 it had the dPFE replaced at 13,342 miles for MIL, on 4/12/2002 it had a second dPFE changed for MIL (P0401)

I have the second dPFE, SRL719. and will propose that it be one that goes to the outside lab.

Regards

Mark Freeland

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Subject: DPFE Sensor Vehicle Issues Meeting
Location: POEE, E103A (Pillar L10)

Start: Mon 5/13/2002 1:00 PM
End: Mon 5/13/2002 3:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Freeland, Mark (M.); Janda, Jon (J.M.); Gates, Freeman (F.C.); Poma, Amy (A.); Plante, Paul (P.G.); Verner, Carol (C.J.); Awad, Mahmoud (M.I.); Rossi, Roberto (R.A.); McCoy, James (J.D.); Maurer, James (J.B.); jjahshan@visteon.com; Ailes, Sheran (S.A.)

This meeting is mandatory to all attendees for conducting working group business. Please clear your calendars to attend. The first meeting will review objectives. Please read attachments in advance. Bring (12) copies of your issues to present and discuss. This CR is located in the center rear of the POEE building, by pillar L10.



vehissua.doc

DPFE Sensor Vehicle Issues Meeting

Overview/Objectives: To present, discuss and concense on vehicle issues affecting the failure of the DPFE sensor. Decisions must be reached that lead to (Is-Is Not) root cause for each issue discussed. If a decision is NOT attainable with the data given, then assignments to a specific leader will be set and a due date given, or the issue will be deleted from consideration. All issues will be discussed to the teams satisfaction. This team will attempt to concentrate our efforts for issue resolution, prioritize workload, and distribute issues to responsible people. This will be a working group, weekly, Monday meeting with brief report outs at the I4D Tuesday/Thursday meetings. Jim McCoy is the leader for procuring (5) sets of vehicle instrumentation to be used on (4) buy back vehicles, and others as available.

Team Leaders: P. Plante (facilitator), Jon Janda (leader), and Amy Poma (issues tracking PMA)

Attendees: See meeting notice. Attendance is mandatory to conduct business.

Location: E103A, POEE, Monday, 1:00-3:00 PM (Center Rear of POEE in I4 Engine area)

Agenda:

- 1) P. Plante Objectives overview and team comments.
- 2) M. Awad Issues from AWS
 - A) AWS Stack Chart w/ Vehicle and Sensor documented changes overlay (5 target)
 - B) Repeat repairs plots and analysis
 - C) Pareto of 21 vehicles failure rate
 - D) Other
- 3) Mark Freeland issues
- 4) Other Team Members

P. Plante
5/9/02
Pgp/vehissue.doc

From: Plante, Paul (P.G.)
Sent: Wednesday, May 08, 2002 4:41 PM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.); Awad, Mahmoud (M.I.)
Subject: RE: D02 and D21 CCC

Thanks! Comment: i think the team should have a single point of contact for warranty data. That has been established as Mahmoud. Tim Davis, TS in the Quality Office, has specified the data and presentation that will be corporate wide. This is the correct data that should be available to all associated with this issue. I think we all need to assign workload to avoid duplication and maximize our output. More than one source of data causes confusion inside and outside the team.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, May 06, 2002 5:03 PM
To: Awad, Mahmoud (M.I.); Porta, Amy (A.); Plante, Paul (P.G.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Subject: RE: D02 and D21 CCC

Team,

Here is the latest (4/30/2002 cut off) warranty data for the Focus.

<< File: 20020506 Warranty data for 2L Zetec Focus dPFE.xls >>

Regards

Mark Freeland

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email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Awad, Mahmoud (M.I.)
Sent: Monday, May 06, 2002 11:26 AM
To: Porta, Amy (A.); Plante, Paul (P.G.); Maurer, James (J.B.); Freeland, Mark (M.); Gates, Freeman (F.C.)
Subject: D02 and D21 CCC

Team,

I'm resending this again after I did some changes based on our meeting last Thursday. Attached is 2 files, the first one has the number of D02 and D21 claims for each application along with percentages with respect to the total number of DPFE claims. The second file has all the causal parts that contribute to D02 and D21 on the 2.0L Zetec Focus only.

Amy,

Welcome aboard, would you keep a copy from these two files in the evidence book please.

<< File: D02-D21.xls >> << File: D02&D21 Causal Parts.xls >>

Best Regards
Mahmoud Awad
Reliability Implementation Engineer
FMEI Department Support

EA02-027-G 10002

Phone: (313) 24-83889
e-mail: mawad@ford.com

From: Plante, Paul (P.G.)
Sent: Wednesday, May 08, 2002 2:42 PM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: RE: Poor Connections

Bring this one and all others to the 2 hour meeting I will try and set for this Friday. Sorry for the phone disconnect at Noon today. My phone just died for about 1/2 hour, then came back.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, May 08, 2002 2:02 PM
To: Maurer, James (J.B.); Gates, Freeman (F.C.); Plante, Paul (P.G.)
Cc: Rosl, Roberto (R.A.); Hermann, Thomas (T.J.)
Subject: Poor Connections

After reading many many many vehicle histories, I am starting to make a poor connection, pun intended.

There appears to be a connection between dPFE failures, blown fuses for the cigarette lighter, INOP cigarette lighters with poor connections and poor AM radio reception.

Can you direct this clue to the people who may be interested in checking it out.

I don't know how many of you read children's books? But this is sort of a Blue's Clue if you know what I mean. More will follow.

PS Who has the radio, maybe they should be in on the act. They may have some clues of their own!

Regards

Mark Freeland

6-Sigma Black Belt
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Dearborn, MI 48121-2053 USA
email: mfreels1@ford.com
Tel.: (313) 594-7645

From: Plante, Paul (P.G.)
Sent: Tuesday, May 07, 2002 12:44 PM
To: Freeland, Mark (M.); Gates, Freeman (F.C.); Rossi, Roberto (R.A.); Maurer, James (J.B.); Plante, Paul (P.G.)
Subject: RE: 02S33B

There are basic core tools defining how this sensor should be designed and the potential detrimental interfaces from wiring harness, PCM etc. These tools include ES, Design Guide, SDS etc.

Questions:

- 1) How do we establish which issues affect the sensor, and we need to work on?
- 2) Who should do the work.

Mark can not single handed look at all electrical failures and establish affect on sensor thru testing or theoretical analysis. We need to concentrate our efforts, prioritize our work, and distribute work to the responsible people.

I intend on discussing briefly at 14D team meeting.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, May 07, 2002 12:25 PM
To: Rossi, Roberto (R.A.)
Cc: Plante, Paul (P.G.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Subject: RE: 02S33B

Roberto,

Thanks for the info on the recall.
Could this result in "electrical noise" reaching the dPFE as arc overs are occurring?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
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Dearborn, MI 48121-2053 USA
email: mlfreel1@ford.com
Tel: (313) 594-7645

-----Original Message-----

From: Rossi, Roberto (R.A.)
Sent: Tuesday, May 07, 2002 9:05 AM
To: Freeland, Mark (M.); Plante, Paul (P.G.)
Subject: RE: 02S33B

Mark,

I worked on this recall. The issue was the body sealing was not consistently being applied behind the right rear tire on the Windstar. During wet road conditions the tire was spraying water into the vehicle. An unsealed connector is located directly behind the wheel and it has a power and ground circuit next to each other. The water and salt that would enter the connector could cause a carbon track to form between the pins and melt

the connector.

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-61438

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, May 06, 2002 5:33 PM
To: Plante, Paul (P.G.)
Cc: Rossi, Roberto (R.A.)
Subject: 025338

Paul,

Can you tell me where I can look up the details of this safety recall. It appears to be to do with the sealing of an electrical connector, and thus could be relevant to our issue with the dPFE.

Thanks

Regards

Mark Freeland

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Tel.: (313) 594-7645

From: Plants, Paul (P.G.)
Sent: Thursday, May 02, 2002 12:45 PM
To: Freeland, Mark (M.); Maurer, James (J.B.)
Cc: Plants, Paul (P.G.)
Subject: RE: Instrumentation

Mark, thanks!

Jim, ball in your court? We need to buy or rent (5) sets ASAP. Who do we assign this to? Do we need to put on agenda for J. O'Neill discussion Monday at 10:30?

---Original Message---

From: Freeland, Mark (M.)
Sent: Wednesday, May 01, 2002 3:56 PM
To: Maurer, James (J.B.)
Cc: Plants, Paul (P.G.); Potter, Timothy (T.J.)
Subject: Instrumentation

<< File: Instrumentation for Buy Back Vehicle BreakoutBox.doc >>

Jim Please ditch the first attachment and replace with this one. I have added the Digital scope and the contact info for the digital scope.

Regards

Mark Freeland

6-Sigma Black Belt
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Ford Research Laboratory
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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Plants, Paul (P.G.)
Sent: Thursday, May 02, 2002 12:41 PM
To: Freeland, Mark (M.); Maurer, James (J.B.); Plants, Paul (P.G.); Gates, Freeman (F.C.)
Subject: RE: CONFERENCE

What is the issue to be discussed? We need to assign a single point of contact. The FQE's can help us get parts, vehicles, discuss issue w/ the field mechanics etc. I suggest the team rep to FQE be Carol, Jim Maurer, Shri, John Janda, or myself.

Jim, put on T/Th agenda for brief review and assignment.

---Original Message---

From: Freeland, Mark (M.)
Sent: Thursday, May 02, 2002 9:08 AM
To: Plants, Paul (P.G.)
Subject: FW: CONFERENCE

Paul,

I have a request to talk with the FQEs. How shall we (the team) handle this request?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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email: mfreela1@ford.com
Tel: (313) 594-7645

---Original Message---

From: Lovelace, Maria (M.E.)
Sent: Thursday, May 02, 2002 8:40 AM
To: Freeland, Mark (M.)
Subject: CONFERENCE

Mark,
every Monday we have a conference call with our FQEs. They are in town this week for training, but will be going home tomorrow. Would it be possible for you to call in Monday, May 6 to our conference call? Say about 10:20 am? I will not be here, but my supervisor Lee Bersuder will be handling the call. Please advise if you can do this. Thanks

Maria E. Lovelace - FQE Liaison
Enhanced Concern Identification - FCSD
500 Town Center, Suite 300 Cube 25
500 Town Center Drive
Dearborn, Michigan 48126
313-323-6561/800-521-4450

From: Plante, Paul (P.G.)
Sent: Thursday, May 02, 2002 12:30 PM
To: Freeland, Mark (M.); Rossal, Roberto (R.A.); Maurer, James (J.B.)
Subject: RE: WSAP Powertrain PQR Meeting Minutes - 4/24/02

Jim please add to agenda for Tuesday 5 minute discussion. Robert, can you take the lead on this, advise us Tuesday. This item was already identified as a possible issue, we need a conclusion for Is-Is Not!

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, May 02, 2002 9:43 AM
To: Awad, Mahmoud (M.I.); Plante, Paul (P.G.); Gabes, Freeman (F.C.); Maurer, James (J.B.); Rossal, Roberto (R.A.); Altes, Sharan (S.A.)
Subject: FW: WSAP Powertrain PQR Meeting Minutes - 4/24/02

Team,

We need to dig in to what the possible consequences of a intermittent on the C-90 connector could do. The Signal return and Vref for the TPS and the Fuel Rail Pressure sensor and the Injector connections are in this shell. Also, if not properly seated, it is possible that water might get into the connector and create cross talk and or corrosion of the pins.

Roberto,

I understand that this is such a big issue at the plant that a new connector design was released for 2002 MY, but they are having just as much trouble with the new connector as with the old one. Can you get full details of this issue and example hardware for the team to review, say by next Tuesday's meeting.

Other information I have is that the C-90 used on 2.0L SPI is different and not a problem. The problem C-90 may be used in other applications, (can you find out which other applications use the same connector). Lear is the wiring supplier for the 2.0L Zetec Focus.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreeia1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Oboza, Doran (D.)
Sent: Wednesday, May 01, 2002 3:31 PM
To: Freeland, Mark (M.)
Subject: RE: WSAP Powertrain PQR Meeting Minutes - 4/24/02

Mark, the primary contact for the C90 connector is Tony D'Agostino (adagost3).

I can answer many questions for you as well.

ERG2-827-G 15814

This is a Zetec issue. Partially connected connectors can get passed the EOL testing. If this happens we will see intermittent stalls, check engine light failures, and no starts in the field. The connection is checked at about 4 different locations in the plant.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, May 01, 2002 2:58 PM
To: Oboza, Doran (D.)
Cc: Penta, Paul (P.G.); Gates, Freeman (F.C.); Maurer, James (J.B.); Rosel, Roberto (R.A.); Alles, Sheran (S.A.)
Subject: FW: WSAP Powertrain PQR Meeting Minutes - 4/24/02

Doran,

Can you provide the name of the key contact who knows all about the C-90 Connector issue, and what the implications of the fault are.

Thanks

Others, please see the attachment from Doran.

Thanks

Regards

Mark Freeland

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email: mfreelal@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Oboza, Doran (D.)
Sent: Friday, April 26, 2002 3:36 PM
To: Agarwal, Apoorva (A.); Banks, Nemina (N.B.); Caryea, Kevin (K.W.); Cvetkovic, Peter (P.); Davenport, Marty (M.F.); Deegan, Mike (M.D.); Falls, Stephen (S.W.); Fashina, Ayodeji (A.); Fodera, Michael (M.J.); Foust - Smith, Susan (S.L.); Freeland, Mark (M.); Giannamore, Armand (A.A.); Gilmour, Brady (B.A.); Ivanyszyn, Teri (T.E.); Madrid, David (D.R.); Matt Morin; Morton, Michael (M.F.); Motley, Leslie (L.M.); Norman, Ingrid (I.); Odum, Ike (I.C.); Prater, Joseph (J.A.); Rezaee, John (J.H.); Selleck, Beth (B.); Stearns, Parn (P.V.); Tobis, Bruce (B.J.); Trombetta, Christopher (C.B.); Whang, Sonjee (S.); Winekoff, Bryan (B.D.); Zubeck, Michael (M.W.); Acuff Jr., Melvin (M.); Ahmed, Kamal (K.); Ajukufoh, Bart (B.O.); Anderson, Johnny (J.D.); Arszulowicz, Ken (K.J.); August, Dan (D.); Baum, Joe (J.M.); Bednarek, Mark (M.P.); Bosner, Derryle (D.R.); Brian Johnson; Brocketta, Ronald (R.K.); Broski, James (J.W.); Brown, Mark (M.D.); Campbell, Andrea (A.M.); Campbell, Donald (D.C.); Caruso, Barry (B.); Cassien, William (W.C.); Cestieman, William (W.G.); Centilivra, James (J.C.); Cervantes, Eduardo (E.J.); Chris Campbell; Danchanowski, Mark (M.S.); Clugston, Shane (S.A.); Coats, Richard (R.M.); Colabruglio, Vince (V.E.); Cox, Tom (T.T.); D'Agostino, Antonio (A.); Davis, Jerry (J.W.); Debbia Pallant; Dhaliwal, Dava (D.S.); Dunecke, Dennis (D.R.); Dyson, Simon (S.C.); Eggert, Daniel (D.C.); Fike, Barbara (B.G.); Florence, Jeremy (J.D.); Fulker, James (J.A.); Fowlkes, Michael (M.S.); Francisco Fernandez (E-mail); Franklin, Taj (T.); Gamble, Craig (C.R.); Gazdecki, Timothy (T.A.); Gerke, David (D.W.); Giles, Anthony (A.T.); Gilmer, David (D.C.); Giordano, Mike (M.A.); Goulet, Michele (M.A.); Grace, John (J.E.); Graham, Robert (S.); Granados, Rodolfo (R.); Groom, Reginald (R.); Gucciardo, Steve (S.P.); Hegde, Demodar (D.M.); Helmsbacher, Donald (D.G.); Hettle, Bruce (B.W.); Holloway, Scott (S.S.); Hopkins, Harry (H.S.); J. Sowards; Jahshan, John; Johnson, Gary (G.A.); Jordan, Frances (F.J.); King, Steve (S.J.); Kinnie, Brian (B.W.); Kircal, Ish (I.G.); Kline, Denise (D.M.); Koch, Thomas (T.P.); Kunde, Olaf (O.); Lardizabal, Sergio (S.); Liotte, Brian (B.W.); Lortus, Brett (B.R.); MacDonald, George (G.F.); Madej Jr., Stan (S.P.); Majzoub, Malek (Z.); Mansac, Lance (L.D.); Matthews, Gary (G.); Matyskiewicz, Edwin (E.J.); McZwin, Enoch (E.G.); Mihora, Bob (B.S.); Miller, Melinda (M.S.); Mitchell, Carole (C.A.); Morabito, Mike (M.P.); Moses, Edwin (E.D.); Nemeth, Steve (S.L.); O'Connor, Jim (James W.); Patel, Praful (P.J.); Plasencia, David (D.B.); Poet-barnes, Donna (D.F.); Popenaa, Michael (M.J.); Pulella, Ananth (A.); Purvis, Bruce; Ramey, George (G.); Reichenbach, Ronald (R.W.); Rollin, Anthony (A.D.); Roessman, Michael (M.D.); Samimy, Bahman (Bahmy.); Sands, Roger (R.P.); Schneider, Jeff; Sheridan, Richard (R.D.); Shopp, James (J.J.); Singley, Rogers (R.W.); Smith, David (D.A.); Smith, Tennille (T.C.); Souliera, James (J.K.); Spanlek, Terrence (T.E.); Stevenson, Ethel (E.E.); Stojov, Tony (T.); Stump, Steven (S.M.); Sturgeon, Bill (W.); Swick, Curt (C.); Szczepaniak, Gerard (G.); Taraszkewicz, Alexandre (A.S.); Todone, Domian (D.J.); Thomas, Ken (K.C.); Torosian, David (D.A.); Tounoo, Lyle (L.W.); Tucker, Shanise (S.M.); Tyrell, Larry (L.J.); Vengavolu, Sreedhar (S.); Vinogradov, Alex (A.); Walker,

Cheryl (C.); Walsh, Gerald (G.); Washington, Eric (E.D.); Wegrzyn, Michael (M.J.); Wepler, Ron (R.L.); White, Christopher (C.);
Whitely, Christine (C.); Wiatt, Joseph (J.M.); Wilkins, Robert (R.M.); Williams, Anthony (A.J.); Williams, Elizabeth (E.P.); Williams,
Michael (M.T.); Williams, Robert (R.L.); Willis, Dean (D.G.); Zigler, Brad (B.T.)
WSAP Powertrain PQR Meeting Minutes - 4/24/02

Subject:

<< File: Meeting Minutes (04_24_02).doc >>

Doran Oboza

Powertrain Quality Analyst - Wayne Assembly Plant

Phone - 734-467-0604

Pager - 734-295-5439

email - doboza1@ford.com

"I would rather wake up in the middle of nowhere, than in any city in the world."

Steve McQueen

From: Plante, Paul (P.G.)
Sent: Thursday, May 02, 2002 12:05 PM
To: Janda, Jon (J.M.); Akolkar, Shrikant (S.V.)
Cc: Plante, Paul (P.G.); Maurer, James (J.B.); Freeland, Mark (M.); Gates, Freeman (F.C.)
Subject: Is-Is Not Chart Ownership

Shri and John, I need one of you to take the lead on the Is-Is Not Chart. Please discuss and advise us who it will be.

I discussed this w/ Jim Maurer this AM. We need to establish this chart and fill in daily as results and conclusions are available. Issues with no conclusion belong on the Open Issues and Assignments list w/ leader and estimated completion date. I find that we are revisiting items because the conclusions were not reached and consensus from the team not achieved. I would ask one of you to help drive this overall process for Is Is Not.

I need you to start immediately on the chart. Add dalley as items are covered. Also go back in the records of the Evidence Book and record the Is-Is Not concepts already missed. The rest of the team will help you with this. Tuesday/Thursday meeting agenda can be used in part to obtain this as well.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-298-1905
E Mail: pplante@ford.cm (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Friday, April 26, 2002 4:20 PM
To: 'jahahan@visteon.com'; Schieding, Kurt (K.J.); Awad, Mahmoud (M.I.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Freeland, Mark (M.); Maurer, James (J.B.); Perry, Brian (B.J.)
Cc: Panaretos, Christine (C.M.); O'Neill, Jim (J.D.)
Subject: DPFE Sensor Stalls Issue Review-Thursday, 5/2/02, 1:00-3:00 PM

Team, we need 2 hours to discuss this subject. The only time all are available is 5/2 during our normal team meeting. Advise Me Monday COB if this DOES NOT work for you. All are required to have a meaningful discussion. **BRING ALL DATA ASSOCIATED WITH STALLS FOR DISCUSSION.** Filmsies are better than paper to save copies.

Jim/Chris, please Issue agenda advising all others that this will be the ONLY agenda item that day. Others may choose NOT to attend. We need a small but mandatory working group.

Agenda:

- 1) Overview to set agenda. Brainstorm data and issues from V Engine, PCSE, and Quality Office.
- 2) Review data from each attendee and discuss with team.
- 3) Establish:
 - A) Can stalls theoretically happen?
 - B) What happens when a stall occurs?
 - C) What is the rate of stall compared to overall sensor warranty.
 - D) What components affect stalls (i.e. sensor, PCM, etc.)
- 4) Consense on stall issues. Establish statement for 14D.
- 5) Next steps.

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From: Plante, Paul (P.G.)
Sent: Friday, April 26, 2002 12:40 PM
To: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.); O'Neal, Jim (J.D.)
Subject: FW: Focus Stall Issue (Inquiry)

FYI, please read, this is important.

-----Original Message-----

From: Renouf, Joe (J.H.)
Sent: Friday, April 26, 2002 8:27 AM
To: Plante, Paul (P.G.)
Cc: Grandy, Linda (A.)
Subject: RE: Focus Stall Issue (Inquiry)

Paul,

Your are correct. The investigation deals with only the FDM and you have told us that your group has not investigated the FDM and the sensor issue is not related to the FDM. Mark was to be a source for details of the sensor question and how it might relate to stalling if that was to be addressed.

Linda, please remove Mark from your list of expected document/data sources.

Thanks.

Joe

-----Original Message-----

From: Plante, Paul (P.G.)
Sent: Thursday, April 25, 2002 3:58 PM
To: Renouf, Joe (J.H.)
Subject: Focus Stall Issue (Inquiry)

Joe, have Linda Grandy remove Mark Freeland from her distribution list for this issue. Mark is on my sensor team, but is not the leader, and is not up on your issue. All requests associated with the sensor should come to Me or Jim Maurer. We concluded in our meeting with you that the sensor would NOT be part of this inquiry, correct??

Paul Plante
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From: Plante, Paul (P.G.)
Sent: Thursday, April 25, 2002 3:53 PM
To: Freeland, Mark (M.)
Subject: Sci Lab Sensor Lab Work

I have a note to call you Monday to set a day/time to spend in your labs. My calender will be complete then to pick a free day.

Paul Plante
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E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Tuesday, April 23, 2002 9:32 AM
To: Freeland, Mark (M.); Verner, Carol (C.J.)

I have field return sensors from Field Quality Engineers (Rick Williamson) at my desk. I will bring to 1:00 PM meeting today. If you want earlier call or page me, or pick up-they are in my office in box on my round table.

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From: Plante, Paul (P.G.)
Sent: Monday, April 22, 2002 1:02 PM
To: Freeland, Mark (M.)
Subject: Buy Back Cars

I checked on 2 vehicles, 1 Tribute and 1 Focus (Allen Ford) today. Hopefully they are about a week away from being in our hands. We will follow thru and get these!

Paul Plante
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Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-298-1805
E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Wednesday, April 17, 2002 5:02 PM
To: Rossi, Roberto (R.A.)
Cc: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)
Subject: RE: DPFE Voltage Transient Testing Report

Bring to Thursday meeting and review please, or set up 1 hour as separate meeting.

—Original Message—

From: Rossi, Roberto (R.A.)
Sent: Wednesday, April 17, 2002 4:16 PM
To: Panaretos, Christine (C.M.); Freeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); O'Neill, Jim (J.D.); Perry, Brian (B.J.); Plante, Paul (P.G.); McCoy, James (J.D.)
Cc: Bzynsek, Raymond (R.); Carroll, Gigi (G.D.); Altes, Sheran (S.A.)
Subject: DPFE Voltage Transient Testing Report

Sheran and I have completed the testing to determine the effects of vehicle wiring induced voltage transients on the Kavlico DPFE sensor and have determined that there is no evidence to conclude that there are sufficient voltage (energy) transients on the DPFE wiring to cause any latch-ups/failures of the sensor.

The following is a copy of the report.

<< File: Focus Wiring Test Report Update.doc >>

Thank you,

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

From: Plante, Paul (P.G.)
Sent: Tuesday, April 16, 2002 3:45 PM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.); Janda, Jon (J.M.)
Subject: Wednesday 9:00 AM Call to P. Plante

Mark, call my office. John and Sri will be here to discuss afternoon lab work at FRL and training Wed AM per our discussion today.

Paul Plante
V Engine Campaign Prevention Specialist
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Text Pager: 734-296-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Thursday, April 11, 2002 11:52 AM
To: Freeland, Mark (M.)
Subject: RE: telephone job??

Yes

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, April 11, 2002 9:36 AM
To: Gates, Freeman (F.C.); Maurer, James (J.B.); Plante, Paul (P.G.)
Subject: FW: telephone job??

Jim, Freeman & Paul

Would you like to bring Ed in to help with the planning of the outside lab work?
He may bring some rationality to the situation.

Regards

Mark Freeland

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-----Original Message-----

From: Ed Sickafus [mailto:ntelleck@ic.net]
Sent: Thursday, April 11, 2002 9:10 AM
To: Mark Freeland
Subject: telephone job??

4/11/02

Mark, been thinking more about the telephoning job. While doable, it seems to me to be rather expensive to have me making phone calls. Where I see more justifiable use of my expertise would be in planning and interpreting independent lab work/results.

I don't know how far along you and your colleagues are on planning independent lab studies, but let me simply suggest that up front detailed planning can make a big difference in final results. Usually, by the time lab results are returned it is too late to order new work and one has to make do with what is available. Also, timing of receipt of results is at best iffy (and probably can't be changed).

In any case, a matrix of tests should be worked up with each test belonging to a well defined hypothesis, with preplanned criteria for precision of measurement, with preplanned ideas of what the results mean (at least the difference in "high" vs. "low" results), and with specific ideas of the

measurements to be made. Typically, in firefights there is insufficient time to pull off a well defined designed experiment. But if there is, one or more should be well designed. If time permits, the matrix of hypotheses and associated tests should be independently reviewed.

Another feature is to rate the proposed tests according to their individual definitiveness. Then by doing the most definitive ones first, if one is lucky, others might be cancelled or changed midstream. This isn't quite simple as it may look at first because another issue is complexity and time needed to do the more definitive tests.

My perception, at the moment, is that finding root causes for the missing A1 film would be a first goal. Then demonstration of device malfunction when there is missing A1 film (probably a more difficult experiment) would be the clincher. This perception may be a bit naive due to my limited information.

Ed

From: Plante, Paul (P.G.)
Sent: Thursday, April 11, 2002 11:29 AM
To: Freeland, Mark (M.)
Subject: RE: Proposed data to be gathered on all parts sent to outside labs

Nice list, you done this before?

---Original Message---

From: Freeland, Mark (M.)
Sent: Wednesday, April 10, 2002 1:45 PM
To: Maurer, Andrea (A.M.); Plante, Paul (P.G.); Gates, Freeman (F.C.); Verner, Carol (C.J.); Hargas, Jon (.)
Cc: Potter, Timothy (T.J.)
Subject: Proposed data to be gathered on all parts sent to outside labs

Please see the attached document for my initial proposal of the minimum data which should be collected for each part sent to an outside lab before any tear down analysis is conducted.

If you have any additional suggestions then please let me know and I will add this to the document.

Thanks

<< File: Outside Lab Initial Characterization.doc >>

Regards

Mark Freeland

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From: Planta, Paul (P.G.)
Sent: Monday, March 25, 2002 12:45 PM
To: Freeland, Mark (M.)
Subject: RE: Working relationship with Kavlico

Patrice Johnson, STA, and Bill McCarty, Purchasing buyer, will go to Kavlico Tuesday. I asked them to discuss this and try for an agreement to get engineering participation back. Issue was discussed at 10:30 with Jim Oneall, Freeman, Bill, Jim Maurer and Me. We are taking this very seriously, but have no current resolution.

—Original Message—

From: Freeland, Mark (M.)
Sent: Monday, March 25, 2002 12:39 PM
To: Planta, Paul (P.G.); Gates, Freeman (F.C.); Maurer, James (J.B.)
Subject: Working relationship with Kavlico

Paul, Freeman & Jim,

I understand from Dr. Kyong Park that as of this morning their directions from Kavlico's management to not work on the dPFE sensor issues which have been in place since 3/15/2002 are still in force.

Do you have any new news on this issue?

Thank you

Mark Freeland

From: Plante, Paul (P.G.)
Sent: Monday, March 25, 2002 9:54 AM
To: Freeland, Mark (M.)
Subject: RE: EEC issues

This issue is NOT on any of my tracking lists. I will advise you if I hear something. You may want to ask Brian at Tuesday DPFE meeting. Should I sell my Ford stock? Fortunately I don't have much!

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, March 25, 2002 9:43 AM
To: Plante, Paul (P.G.); Awad, Mahmoud (M.I.)
CC: Gates, Freeman (F.C.); Maurer, James (J.B.)
Subject: EEC issues

Paul,

Rumor has it (PEOPLE DONT TALK ABOUT THESE THINGS) that there is a serious EEC issue with a Motorola manufactured GASP (Component inside the EEC) which is used in both Visteon and Motorola EECs. It affects 8 M PCMs from week 13 in 2000 through week 38 in 2001. Can you check into this.

I just checked the PCM warranty for 2.0L Zetec Focus. The warranty in 2001 MY is 3 times higher than in 2000 or 2002 MYs.

Mahmoud, what is the Fuel Pressure Sensor Warranty for 2.0L Zetec Focus in 2000 MY, 2001 MY & 2002 MY.

Thanks

Mark Freeland

From: Planta, Paul (P.G.)
Sent: Friday, March 22, 2002 11:48 AM
To: Frelend, Mark (M.)
Subject: RE: Towed In Vehicle Stalled While Driving (with no reported warning) on Freeway from GQRS

Thanks, I understand this CAN happen, but the question remains how to quantify it accurately. I can't believe the number of hours I have spent thinking and discussing this one...I know you have as well. Saga to continue...

---Original Message---

From: Frelend, Mark (M.)
Sent: Thursday, March 21, 2002 7:00 PM
To: Planta, Paul (P.G.)
Cc: Maurer, James (J.B.); Awad, Mahmoud (M.I.)
Subject: Towed In Vehicle Stalled While Driving (with no reported warning) on Freeway from GQRS

<< File: 3FAFP31361R103897.pdf >>

Note: AFTER the tow in for stall while driving on freeway, this one has had two further dPFE failures in quick succession after the first tow in, the second and third were not stalls and did have MIL lights.

Regards

Mark

From: Plante, Paul (P.G.)
Sent: Friday, March 22, 2002 11:44 AM
To: Ross, Roberto (R.A.); Alles, Sheran (S.A.); Maurer, James (J.B.); Gates, Freeman (F.C.);
Freeland, Mark (M.); Plante, Paul (P.G.); Panarellos, Christine (C.M.)
Subject: EESE Affect on DPFE Meeting

Chris please add this to Tuesday agenda for 2 minutes ONLY. All I want to do Tuesday is establish a date when the EESE testing and summary paper of their findings is available. Then I want to establish a (2) hour deep dive engineering meeting with above attendees and Kavico to discuss outside of team meeting. ALL data from all team members should be addressed. Additional attendees should be discussed.

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From: Plants, Paul (P.G.)
Sent: Friday, March 22, 2002 11:38 AM
To: Freeland, Mark (M.); Maurer, James (J.B.)
Subject: RE: THERE ARE NO WIRING PROBLEMS!!!

Tell Me what you really think?

OK, see my next E Mail for issue resolution meeting.

--- Original Message ---

From: Freeland, Mark (M.)
Sent: Thursday, March 21, 2002 7:40 PM
To: Plants, Paul (P.G.)
Cc: Maurer, James (J.B.); Awad, Mahmoud (M.I.)
Subject: THERE ARE NO WIRING PROBLEMS!!!

Bull Shit!

GQRS Staller with Special Service Message 14747 with 3 no starts, 1 difficult start, 1 1440' (wiring) and 2 dPFE sensors

<< File: 1FAHP38391W107129.pdf >>

Mark

From: Plante, Paul (P.G.)
Sent: Thursday, March 21, 2002 10:23 AM
To: Gates, Freeman (F.C.)
Cc: Plante, Paul (P.G.); Freland, Mark (M.); Maurer, James (J.B.)
Subject: RE: University of Maryland (CALCE)

At todays team meeting, can we summarize outside help people please, can you lead this discussion, maybe 5 minutes.

-----Original Message-----

From: Gates, Freeman (F.C.)
Sent: Wednesday, March 20, 2002 5:29 PM
To: Plante, Paul (P.G.); Freland, Mark (M.)
Cc: Maurer, James (J.B.); Johnson, Joe (J.H.)
Subject: University of Maryland (CALCE)

Earlier this afternoon, Jim Maurer and I contacted Dr. Craig Hillman of CALCE [Http://www.calce.umd.edu](http://www.calce.umd.edu) .This division of the University of Maryland provides a cooperative partnership with industry of which Ford Motor Co. has been a past member. Most noticeable, they were involved with TFI module analysis. They get deeply involved with all aspects of CMOS processing and design, problem analysis and warranty/reliability data crunching.

Please visit their web site and provide your comments.

Freeman Gates

Senior EGR Systems Technical Specialist
Tel (313)32-24807 Fax (313)38-04084
POEE Rm D-138 CM-173

From: Plante, Paul (P.G.)
Sent: Wednesday, March 20, 2002 3:39 PM
To: Freeland, Mark (M.)
Subject: RE: Manpower Requirements for DPFE Sensor Issue

Great thanks!

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Wednesday, March 20, 2002 3:39 PM
To: Plante, Paul (P.G.)
Subject: RE: Manpower Requirements for DPFE Sensor Issue

Paul,

I have no objection to you recommending additional SRL type resources. I am trying to identify who might be good candidates at my Friday morning meeting.

Regards

Mark

From: Plante, Paul (P.G.)
Sent: Wednesday, March 20, 2002 3:32 PM
To: O'Neill, Jim (J.D.); Gates, Freeman (F.C.); Freeland, Mark (M.); Maurer, James (J.B.)
Cc: Plante, Paul (P.G.)
Subject: Manpower Requirements for DPFE Sensor Issue

This is my recommendation for additional team support on this issue. All have been discussed in the past. I review requirements with John Koszewnik for all critical potential recalls periodically. This revisit is timely due to the first 14D Tech Review presentation Monday, 3/25. Management may offer us additional resources.

My compliments to all of you, your expertise and professionalism along with many dedicated hours of work have been outstanding! To offload your personal workloads I recommend:

Prioritized List

V Engine Personnel:

- 1) FMEI Engineer
- 2) FMEI Supervisor
- 3) FMEI Warranty Analyst

Outside V Engine Personnel:

- A) STA Engineer full time dedicated
- B) RIE Quality Office engineer continuing/ongoing full time
- C) Purchasing assistance increased time including FCSD, Production Buyer and Service Buyer
- D) EESE increased time or manpower
- E) PCSE increased time and or manpower

Paul Plante

V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

From: Plante, Paul (P.G.)
Sent: Tuesday, March 19, 2002 8:29 AM
To: Perry, Brian (B.J.)
Cc: Plante, Paul (P.G.); Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

Can you coordinate answer with Rudy Whitworth, MIL Affinity team leader, and Gary Danoff, EGR MIL strategy (presenter at first DPFE Offsite). Should we say in 14D that the PCM is does NOT affect this issue?

—Original Message—

From: Perry, Brian (B.J.)
Sent: Tuesday, March 19, 2002 12:35 AM
To: Plante, Paul (P.G.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

I gave Chris my comments for all points either 3/5 or 3/12, can't remember which. I don't really see them in the document she just sent out.

High level of what I believe I told her;

Issue: Vehicle stall
Cause: PCM power supply brought down by VREF short causes PCM to reset
Corrective Action: None in PCM
Resolution: Implement buffered VREF in Power PC applications (2003-2006)

Issue: Noise spikes on VREF line
Corrective Action: DPFE sensor made more robust to voltage spike transients. Not sure if we have enough data to implement wire routing changes or providing ground paths for fuel rails
Cause: No evidence source is PCM. Induced noise from harnesses and possibly static charge build up on fuel rail. Evidence of noise spikes exist, no confirmation data on source.

Brian J. Perry

Supervisor - C170, U231 & Outsourced Control Systems
GCE-PCSE-Powertrain Electronic Applications
Phone/Fax: (313) 39-04170
Cube AP-062 POEE MailDrop 75

—Original Message—

From: Plante, Paul (P.G.)
Sent: Friday, March 15, 2002 7:27 AM
To: Perry, Brian (B.J.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

The 14D will be presented Monday 3/25/02. Pre Review w/ John Koszewnik is 3/22 Friday. I need you to summarize the root cause and possible corrective actions associated with the PCM by Monday COB to add to paper. OK?? Thanks for Thursday offsite support!

—Original Message—

From: Perry, Brian (B.J.)
Sent: Wednesday, March 13, 2002 4:34 PM
To: Panaretos, Christina (C.M.)
Cc: Akins, Mary (M.); Ajolkar, Shrikant (S.V.); Alles, Shoran (S.A.); Awad, Mahmoud (M.I.); Ayers, Doni; Danes, Adam (A.V.); Freeland, Mark (M.); Gates, Freeman (F.C.); Jahshan, John; Janda, Jon (J.M.); Maurer, James (J.B.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Plante, Paul (P.G.); Rossel, Roberto (R.A.); Schieding, Kurt (K.); Shore, John (J.); Smythe, Joseph (J.M.); Verner, Carol (C.J.)
Subject: RE: Revised Agenda for 3/14 Kavlico Technical Offsite

I was originally only planning to support the AM session due to another critical system issue mtg I have in the afternoon. This was going to work since the fishbone and is/Is not was during the AM. I don't feel that I am of

any benefit for the UPAD and corrosion analysis.

I am not sure that I can support the Is/ Is not and fishbone discussions in the afternoon with this revised agenda. I will try to rebalance my schedule to support the afternoon, but I cannot confirm.

Brian J. Perry

Supervisor - C170, U231 & Outsourced Control Systems
GCE-PCSE-Powertrain Electronic Applications
Phone/Fax: (313) 39-04170
Cube AP-062 POEE MailDrop 75

—Original Message—

From: Panaretos, Christine (C.M.)
Sent: Wednesday, March 13, 2002 1:01 PM
To: Atkins, Mary (M.); Alokikar, Shrikant (S.V.); Alles, Sharon (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Danas, Adam (A.V.); Freeford, Mark (M.); Gates, Freeman (F.C.); Jahshan, John; Janda, Jon (J.M.); Maurer, James (J.B.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Panaretos, Christine (C.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Rossi, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Smythe, Joseph (J.M.); Verner, Carol (C.I.)
Subject: Revised Agenda for 3/14 Kavlco Technical Offsite

Attached please find the revised agenda for the offsite meeting tomorrow. As a reminder, this will be held at the Fairlane Training and Development Center, Room 145, South building. Lunch will no longer be provided, but the cafeteria will be open if you would like to purchase one. There will be an in-focus projector available for presentation purposes.

If you have any questions, please feel free to contact me. See you tomorrow at 8:30!

<< File: Kavlco dPFE Tech Offsite Agenda_031402.doc >>

Chris Panaretos

Project Manager, Project Solutions, LLC.
Ford POEE, Components "B"
(313) 24-89337
Fax: (313) 32-29265

From: Plants, Paul (P.G.)
Sent: Monday, March 18, 2002 5:33 PM
To: Freeland, Mark (M.)
Subject: RE: 14D Dictionary of Terms

OK, thanks

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, March 18, 2002 3:43 PM
To: Plants, Paul (P.G.)
Subject: RE: 14D Dictionary of Terms

Paul, How about the following definition:

AUGER - Electron Beam based Instrument for characterization of surface and thin film elemental composition. Capable of Ion Sputtering to remove material allowing characterization of underlying layers.

Regards

Mark Freeland

6-Sigma Black Belt
Ford Research Laboratory
P.O. Box 2053
SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Plante, Paul (P.G.)
Sent: Monday, March 18, 2002 12:27 PM
To: Freeland, Mark (M.)
Subject: Kavlico Cooperation w/ Engineering

There was an issue between STA and Kavlico Friday PM. Engineering will continue to work with Kavlico as we have been to date. Sourcing will continue also.

STA got into a heated discussion w/ Kavlico concerning QOS. That still has to be resolved between them. Hopefully we will not be directly adversely affected.

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.cm (CDS ID PPLANTE)

From: Plants, Paul (P.G.)
Sent: Tuesday, March 12, 2002 10:18 AM
To: Freeland, Mark (M.); Gatos, Freeman (F.C.)
Subject: Accepted: Meeting with Kavlico to review SRL work on UPAD

I have a John Koszewnik review 9-11:00 AM Wed. Part of it is DPFE overview. Lets discuss at Tuesday 1:00 PM meet. Freeman should be at Kos review also?

From: Plante, Paul (P.G.)
Sent: Friday, March 01, 2002 1:11 PM
To: Awad, Mahmoud (M.I.)
Cc: Maurer, James (J.B.); Freeland, Mark (M.); Plante, Paul (P.G.)
Subject: VOQ Data Analysis

Mahmoud, Mark said today that he pulled the AWS reports for the Focus VOQ vehicles. Results were that 8 of 10 VOQ's were definitely DPFE related. Can you work with Jim to analyze the other 4 target vehicles VOQ data also. You may need to assign this to someone else and coordinate results. No matter who helps you, I will continue to look for you to lead data mining and analysis and get bottom line conclusions. Thanks!

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager: 734-296-1905
E Mail: pplante@ford.com (CDS ID PPLANTE)

Subject: 2001-2002 Ford Escape 3.0L V6 Engine Stalling Requester Scott Bauer x49786
Location: ESE FPS 500 EAST (12); ESE FPS 500 WEST (12)

Start: Mon 1/6/2003 1:00 PM
End: Mon 1/6/2003 2:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Plaud, Zaida (Z.); Nevi, Ray (R.A.); Olt, David (D.J.); Souchock, Peter (P.D.); Bauer, Scott (S.C.); Fabien, Paul (P.L.); Logel, Jay (J.D.); Conigliaro, Janet (J.); Freeland, Mark (M.); Plante, Paul (P.G.); Dalbo, Bob (R.J.); Fournelle, Gilbert (G.); Williams, Les (LHW.); Ballnt, Gary (G.S.)

Optional Attendees: Plaud, Zaida (Z.)

Requester Scott Bauer x49786

This meeting is being organized by Scott Bauer. If you have any questions please call Scott Bauer at 313-59-49786, or e-mail him at sbauer@ford.com (Bauer, Scott (S.C.)). Thanks.

From: Flaud, Zaida (Z.)
Sent: Monday, September 30, 2002 2:27 PM
To: Freeland, Mark (M.)
Subject: RE: Focus Stalling

The building name is Fairlane Plaza South. (FPS). The pink building next to the Ritz Carlton Hotel and across Fairlane Plaza Mall. It is on Hubbard (service drive) and Southfield. There are two towers, FPS faces the Hyatt Hotel. The suite is 500. You can give me a call from the lobby so I can let you in. My number is 20528. Any other question please let me know. Thanks.

—Original Appointment—

From: Freeland, Mark (M.)
Sent: Monday, September 30, 2002 1:17 PM
To: Flaud, Zaida (Z.)
Subject: Accepted: Focus Stalling
When: Tuesday, October 01, 2002 1:00 PM-2:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: Ray's Office

Can you tell me where Ray's office is?

Thanks

Mark Freeland

Subject: Focus Stalling
Location: Ray's Office

Start: Tue 10/1/2002 1:00 PM
End: Tue 10/1/2002 2:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Plaud, Zaida (Z.); Souchock, Peter (P.D.); Renouf, Joe (J.H.); Nevi, Ray (R.A.); Freeland, Mark (M.)
Optional Attendees: Plaud, Zaida (Z.)

From: Plaud, Zaida (Z.)
Sent: Wednesday, April 10, 2002 2:06 PM
To: Freeland, Mark (M.)
Subject: RE: PE02-040 Focus Stalling - Kick-off Meeting

Mark, Fairlane Plaza South (FPS) is the "pink" building next to Ritz Carlton Hotel and across Fairlane Mall. It is on Hubbard (service drive) and Southfield. The suite is 400. There are two towers, FPS faces the Hyatt Hotel.

-----Original Appointment-----

From: Freeland, Mark (M.)
Sent: Wednesday, April 10, 2002 1:47 PM
To: Plaud, Zaida (Z.)
Subject: Accepted: PE02-040 Focus Stalling - Kick-off Meeting
When: Friday, April 12, 2002 2:00 PM-3:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: Boardroom - FPS Suite 400

Zaida,

Could you please send me directions, I am not sure where FPS is.

Thanks

Mark Freeland

Subject: PE02-040 Focus Stalling - Kick-off Meeting
Location: Boardroom - FPS Suite 400

Start: Fri 4/12/2002 2:00 PM
End: Fri 4/12/2002 3:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Plaud, Zaida (Z.); Patch, Tom (T.W.); Fike, Barbara (B.G.); Giordano, Mike (M.A.); Dyson, Simon (S.C.); Mardell, Mitch (M.P.); Plante, Paul (P.G.); Maurer, James (J.B.); Newl, Ray (R.A.); Tokarsky, Michael (M.); Witkowski, Paul (P.C.); Souchock, Peter (P.D.); Sabaitis, Christine (C.R.); Morey, Phyllis (P.); Trujillo, Thomas (T.G.); Leich, Cherie (C.A.); Moore, Phillip (P.A.); Rencuf, Joe (J.H.); Shore, John (J.); Carver, Norman (N.B.); Goarng, Kimberly (K.L.); Freeland, Mark (M.)

Optional Attendees: Plaud, Zaida (Z.)

Purpose: Assignments for Answering NHTSA's Questions

Please send representative if you can not attend.

Fairlane Plaza South (FPS) is the "pink" building next to Ritz Carlton Hotel and across Fairlane Mall. It is on Hubbard (service drive) and Southfield. The suite is 400. There are two towers, FPS faces the Hyatt Hotel.

From: Pletta, Sharl Finn (S.F.)
Sent: Tuesday, October 29, 2002 10:16 AM
To: Freeland, Mark (M.)
Subject: Out of Office AutoReply: Data from Spark Plug Change on the Mountaineer

I will be out of the office at training from Oct. 28 - Nov. 1. I will be checking e-mail. Please page me for any urgent matters. Text or (313)795-5473

From: PNR-american express [pnr-notification@ltn.net]
Sent: Thursday, June 06, 2002 11:06 AM
Subject: JANDA, JON

American Express
Dearborn, MI

Travel reservations made through American Express.

ITINERARY

Flight/Equip.: United Airlines 1905 Boeing 737-300
Depart: Detroit(DTW)/Sunday June 9 6:05 pm
Arrive: Denver(DEN)/Sunday June 9 7:09 pm
Stops: non-stop Miles:1123
Class: Coach

Flight/Equip.: United Airlines 1285 Boeing 737-500
Depart: Denver(DEN)/Sunday June 9 8:00 pm
Arrive: Burbank(BUR)/Sunday June 9 9:19 pm
Stops: non-stop Miles:850
Class: Coach

Flight/Equip.: United Airlines 574 Boeing 737-500
Depart: Burbank(BUR)/Wednesday June 12 6:16 am
Arrive: Denver(DEN)/Wednesday June 12 9:25 am
Stops: non-stop Miles:850
Class: Coach

Flight/Equip.: United Airlines 1406 Boeing 757-200
Depart: Denver(DEN)/Wednesday June 12 10:05 am
Arrive: Detroit(DTW)/Wednesday June 12 2:40 pm
Stops: non-stop Miles:1123
Class: Coach

Total Airfare (including taxes) 1126.74USD 1126.74
Flight segments must be ticketed by close of business on June 9.

Passengers traveling:
JON JANDA (standard meal)

From: PNR-american express [pnr-notification@tin.net]
Sent: Thursday, May 16, 2002 6:32 PM
Subject: FREELAND, MARK

TRAVEL BOOKING CONFIRMATION

Your company's Travel Department has requested this Message be sent each time you book travel for company business. If you wish to change that arrangement please contact your Travel Department.

CRS Record Locator # 2MV6E4

Airline Record Locator #1 AA-GNVLQK

Name(s) of people traveling:

Passenger #1: MARK FREELAND

Meal: standard

Fare Details: DTT AA X/DFW AA ABQ 286.51AA X/STL AA DTT 282.32USD568.83 END AA
ZPDTWDFWABQSTL XT10.00AY15.00XF DTW4.5DFW3ABQ3 STL4.5

Baggage Allowance: 2 pieces

ITINERARY

Flight/Equip.: American Airlines 1863 Fokker 100
Depart: Detroit(DTW)/Sunday May 19 1:13 pm
Arrive: Dallas/Ft Worth(DFW)/Sunday May 19 3:09 pm
Stops: non-stop Miles:987 Seats Requested: 17A
Class: Coach

Flight/Equip.: American Airlines 2055 McDonnell Douglas MD-80
Depart: Dallas/Ft Worth(DFW)/Sunday May 19 4:07 pm
Arrive: Albuquerque(ABQ)/Sunday May 19 5:07 pm
Stops: non-stop Miles:569 Seats Requested: 27F
Class: Coach

Flight/Equip.: American Airlines 2810 Operated by: Twa McDonnell Douglas MD-80
Depart: Albuquerque(ABQ)/Tuesday May 21 8:45 am
Arrive: St Louis(STL)/Tuesday May 21 12:01 pm
Stops: non-stop Miles:934 Seats Requested: 27F
Class: Coach

Flight/Equip.: American Airlines 2516 Operated by: Twa McDonnell Douglas MD-80
Depart: St Louis(STL)/Tuesday May 21 1:15 pm
Arrive: Detroit(DTW)/Tuesday May 21 3:55 pm
Stops: non-stop Miles:440 Seats Requested: 17A
Class: Coach

Total Airfare (including taxes) 648.50 648.50

Flight segments must be ticketed by close of business on May 19.

ER02-827-G 17082

AGENCY INFORMATION

Agency: American Express
Dearborn, MI

BILLING INFORMATION

Name: Mark Freeland
Address: 2101 Village Road
Mail Stop: SRL Room 1517/MD 2629
Dearborn, MI 48121-2053
Country: USA
Day Phone: 1-313-5947645
Email: MFREELA1@ford.com

PAYMENT INFORMATION

Visa Number: ON FILE
Expires: ON FILE

SPECIAL REQUESTS

HAVE A GREAT TRIP!

From: Poma, Amy (A.)
Sent: Tuesday, August 13, 2002 2:10 PM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

I'll add it to your section in the binder when I receive it.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 1:39 PM
To: Poma, Amy (A.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

Thanks Amy,

I will get you copies of the electrical traces and the updated raw data file which I maintain.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreola1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Poma, Amy (A.)
Sent: Tuesday, August 13, 2002 1:38 PM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

Mark,

I also was keeping a binder with more detailed testing information, reports, etc. Let me know if you want to add any documentation to that binder in case we need for future.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 1:01 PM

EA02-027-G 17004

To: Maurer, James (J.B.)
Cc: Poma, Amy (A.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

Jim,

In that case, could you please schedule a meeting as I have some new data to share, negative transients on the Vout of -22 volts, and positive overshoots of Vref during power up. Also, can I please have a copy of the latest vehicle test summary.

Thank you.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Maurer, James (J.B.)
Sent: Tuesday, August 13, 2002 12:55 PM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

No, vehicle testing is continuing. I don't have any vehicle issues meetings scheduled. If something occurs, we can check into it at that time.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 12:34 PM
To: Maurer, James (J.B.)
Subject: FW: Ongoing Vehicle Testing Spreadsheet

Jim,

Is this true, that the vehicle testing has been discontinued?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory

ER02-027-G 17005

P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

—Original Message—

From: Poma, Amy (A.)
Sent: Tuesday, August 13, 2002 11:49 AM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

I was advised that the vehicle testing has been discontinued. You might want to check with Jim Maurer if Info needs to still be tracked on your Mountaineer. Let me know if you still need it.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

—Original Message—

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 11:25 AM
To: Poma, Amy (A.)
Subject: Ongoing Vehicle Testing Spreadsheet

Amy,

Could you please send me the latest copy of the vehicle test workbook, so that I may update it and send you my new information on the Mountaineer.

Thank you

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Poma, Amy (A.)
Sent: Tuesday, August 13, 2002 1:38 PM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

Mark,

I also was keeping a binder with more detailed testing information, reports, etc. Let me know if you want to add any documentation to that binder in case we need for future.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 1:01 PM
To: Maurer, James (J.B.)
Cc: Poma, Amy (A.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

Jim,

In that case, could you please schedule a meeting as I have some new data to share, negative transients on the Vout of -22 volts, and positive overshoots of Vref during power up. Also, can I please have a copy of the latest vehicle test summary.

Thank you.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

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To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

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Regards,

Jim Maurer

James B. Maurer

EA82-027-G 17007

V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

---Original Message---

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Sent: Tuesday, August 13, 2002 12:34 PM
To: Maurer, James (J.B.)
Subject: FW: Ongoing Vehicle Testing Spreadsheet

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Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

---Original Message---

From: Poma, Amy (A.)
Sent: Tuesday, August 13, 2002 11:49 AM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

I was advised that the vehicle testing has been discontinued. You might want to check with Jim Maurer if info needs to still be tracked on your Mountaineer. Let me know if you still need it.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

---Original Message---

From: Freeland, Mark (M.)
Sent: Tuesday, August 13, 2002 11:25 AM
To: Poma, Amy (A.)
Subject: Ongoing Vehicle Testing Spreadsheet

Amy,

Could you please send me the latest copy of the vehicle test workbook, so that I may update it and send you my new information on the Mountaineer.

Thank you

Regards

ER02-027-G 17008

Mark Freeland

**6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel: (313) 594-7645**

From: Poma, Amy (A.)
Sent: Tuesday, August 13, 2002 11:49 AM
To: Freeland, Mark (M.)
Subject: RE: Ongoing Vehicle Testing Spreadsheet

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*Amy Poma
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apoma2@ford.com*

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Thank you

Regards

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Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Poma, Amy (A.)
Sent: Wednesday, August 07, 2002 11:00 AM
To: Akina, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoske, Pete (P.F.); Bansek, Catherine (C.K.); Berauder, Lee (L.C.); Biasi, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danee, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hargas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerezi, Karen (K.J.); Koszewnik, John (J.J.); Kunda, Olaf (O.); Mesura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Darsen (D.J.); Nielsen, Christian (C.A.); O'Neal, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy; Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Reddy, Srikanth; Rossi, Roberto (R.A.); Schiading, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); Williamson, Richard (E.)
Subject: Status of call in meetings

Team-

I have been advised that still no decision has been reached between Ford and Kavlico on how we are going to proceed so the Thursday 1:00-3:00 call in meetings are cancelled until further notice.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com*

Subject: Voltage measurements during coil charging
Location: POEE, FMEI dept or DI-106 near pillar G-17

Start: Tue 8/6/2002 1:00 PM
End: Tue 8/6/2002 2:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Freeland, Mark (M.); McCoy, James (J.D.); Ailes, Sheran (S.A.); Maurer, James (J.B.); 'jshshen@visteon.com'

Jim Maurer has requested your attendance at the above referenced meeting for Tuesday, August 6th. Please advise if you are unable to attend.

Mark Freeland-Per Jim's request, please bring your vehicle so the team can look at it. Thanks.

From: Poma, Amy (A.)
Sent: Monday, August 05, 2002 10:33 AM
To: Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Plante, Paul (P.G.); Poma, Amy (A.); Reddy, Srikanth; Rossi, Roberto (R.A.); Verner, Carol (C.J.)
Subject: TODAY'S 1:00 MEETING CANCELLED

Today's Issues Resolution Team meeting is cancelled. Jim Maurer is still awaiting feedback from John Koszewnik's meeting with Kavlico to determine team/future meeting status.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

From: Poma, Amy (A.)
Sent: Friday, August 02, 2002 2:39 PM
To: Freeland, Mark (M.)
Subject: FW: Uninterruptable power supply

Mark,

Please see Jim's note below.

-

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

-----Original Message-----

From: Maurer, James (J.B.)
Sent: Friday, August 02, 2002 1:07 PM
To: Poma, Amy (A.)
Subject: RE: Uninterruptable power supply

Amy,
I left one on Mary Akins desk and asked her to take it to Mark.

Regards,

Jim Maurer

James B. Maurer
V-Engine 6-Sigma Team Leader
Fuel Metering Dept. V Engine Engineering
Phone (313) 390-3672, Fax (313) 390-4084
Text Page: (313) 795-5219
Email: jmaurer@Ford.com

-----Original Message-----

From: Poma, Amy (A.)
Sent: Friday, August 02, 2002 9:03 AM
To: Maurer, James (J.B.)
Cc: Freeland, Mark (M.)
Subject: Uninterruptable power supply

Jim,

Mark Freeland is asking me to see if I can help locate these units that Tim Potter ordered and had sent to Jim McCoy. Jim M. is on vacation until next week and Mark wanted to try to get one of the six of these if I could locate. The others in Jim M.'s area are also out, so I can't ask any questions. If you know anything, please let myself or Mark know. Thanks.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

From: Poma, Amy (A.)
Sent: Friday, August 02, 2002 9:03 AM
To: Maurer, James (J.B.)
Cc: Freeland, Mark (M.)
Subject: Uninterruptable power supply

Jim,

Mark Freeland is asking me to see if I can help locate these units that Tim Potter ordered and had sent to Jim McCoy. Jim M. is on vacation until next week and Mark wanted to try to get one of the six of these if I could locate. The others in Jim M.'s area are also out, so I can't ask any questions. If you know anything, please let myself or Mark know. Thanks.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com*

From: Poma, Amy (A.)
Sent: Thursday, August 01, 2002 1:25 PM
To: Freeland, Mark (M.)
Subject: 8/1 voicemail

Mark,

Please advise specifically what you need from Jim McCoy. I went by his desk and he is out like you said, but perhaps I can track down what you need.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

From: Poma, Amy (A.)
Sent: Thursday, August 01, 2002 9:46 AM
To: Freeland, Mark (M.)
Subject: RE:

Mark,

Talk to Jim Maurer regarding the status of the Ford/Kavlico Team, scheduled meetings and how we are going to proceed. A lot happend while you were on vacation.

I will send you the mileages.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

---Original Message---

From: Freeland, Mark (M.)
Sent: Tuesday, July 30, 2002 5:06 PM
To: Poma, Amy (A.)
Subject: RE:

Amy,

Could you forward me a copy of the status of accumulated miles on each test vehicle along with any reports of unusual events.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

---Original Message---

From: Poma, Amy (A.)
Sent: Monday, July 15, 2002 8:35 AM
To: Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Plante, Paul (P.G.); Poma, Amy (A.); Reddy, Srikanth; Rossi, Roberto (R.A.); Vermer, Carol (C.)
Subject:

Team below please see note Jon asked me to forward regarding week end drives. If you have any questions, please contact him directly. Thanks.

The following people are the ONLY ones approved for week end drives:

Jim McCoy
Dennis Kryzske
Jim Maurer
Jerry Kazmer
Freeman Gates
Gary Ellul

It's expected that those on the list accumulate notable mileage.

Thank You,
Jon Janda

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com

From: Poma, Amy (A.)
Sent: Tuesday, July 30, 2002 8:41 AM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoske, Pete (P.F.); Bansek, Catherine (C.K.); Barsuder, Lee (L.C.); Blasl, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Merk (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hargas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerezi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neail, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascary, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy; Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Reddy, Srikanth; Rossi, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); Williamson, Richard (E.)
Subject: August 1, 2002 1:00-3:00 Ford/Kavico mtg. CANCELLED

Please be advised that the Thursday August 1, 2002 1:00-3:00 call in meeting is cancelled. You will be notified when the next meeting will be scheduled.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

From: Poma, Amy (A.)
Sent: Friday, July 26, 2002 10:59 AM
To: Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Meurer, James (J.B.); McCoy, James (J.D.); Plante, Paul (P.G.); Poma, Amy (A.); Reddy, Srikanth; Rossi, Roberto (R.A.); Yamer, Carol (C.J.)
Subject: July 29, 2002 Issues Resolution mtg. Agenda

Team-

Attached is the Agenda for Monday, July 29, 2002 1:00-3:00 meeting.



Kavlico Meeting
Agenda_0729021...

Have a nice weekend everyone.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone 313-390-8849, fax: 313-390-4084
apomaz@ford.com*



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: To Achieve Vehicle Issues Resolution by addressing vehicle issues leading to decision if IS/IS NOT Root Cause with delegation of assignments and collection of data to bring to conclusion

Meeting Logistics	
Subject:	Kavlico TM dPFB Sensor Vehicle Issues Resolution.
Dates:	July 29, 2002
Time:	1-3:00 p.m.
Location:	POBE, conference rm.E103A, (pillar L10)
Called By:	Jon Janda, Team Leader 24(8-2589)
Next Meeting (s):	August 5, 2002, Core Team Meeting
Conference Call-In Number(s):	

Core Team Participants					
Black Belts	Kavlico	V-Engine	Quality Office	EESE	
Mark Freeland	Mary Akins	Jim Maurer	Mahmoud Awad	Sheran Alies	
Shri Aklkar		Freeman Gates		Robert Rossi	
Jim McCoy		Amy Poma			
		Paul Plants			
Team Leader	Visteon	Carol Verner			
Jon Janda	John Jabshan				

Meeting Agenda - 7/29/02		
Order of Agenda Items	Person(s) Responsible	Time Allotted
1. EGR pressure and temperature@ zero flow.	Shri Aklkar	15 minutes
2. Definition of latch.	All	20 minutes
3. Quantifying a latch condition.	All	20 minutes
4. Escape brake light switch & cigarette lighter wiring harness 1 pg. Document.	Robert Rossi	10 minutes
5. 14D Team meetings-structure/status - follow up from Kozownik mtg.	Jim Maurer	15 minutes
6. Walk Ins.	All	

Other Open Issues for Discussion	Person(s) Responsible	Time Estimated

Jim Maurer/op: 6/6/2003
Kavlico dPFB Sensor Core Team

From: Poma, Amy (A.)
Sent: Thursday, July 18, 2002 10:35 AM
To: Akins, Mary (M.); Akolker, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auiler, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoske, Pete (P.F.); Bansek, Catherine (C.K.); Bersuder, Lee (L.C.); Biasi, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galante, Chris (C.R.); Gatas, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hangea, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerazi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascary, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy; Popoff, Daniel (D.M.); Requepau, Alden (A.P.); Reddy, Srikanth; Rossi, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); Williamson, Richard (E.)
Subject: Agenda for today's Kavico/Ford call in meeting

Team,

Attached is the Agenda for today's 1:00 call in meeting.

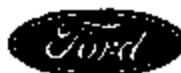


Kavico Meeting
Agenda_071802....

The following people are on today's agenda:

DAIRENE UY-SRL LAB
JIM MCCOY
KYONG PARK
ALL

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com



MEETING ANNOUNCEMENT / WORKING TEAM MEETING

Objective: Establish and implement corrective and containment actions for Kavlico TM dPFE Sensor

Meeting Logistics

Subject: Kavlico TM dPFE Sensor Core Team
Dates: July 18, 2002
Time: 1-3:00 p.m.
Location: POEE, DI-196 (FMBI War Room)
Called By: Jim Maurer, Team Leader: (313) 39-03672
Next Meeting (s): July 25, 2002

Conference Call-In Number(s): 9-1-954-1149 (inside Ford); 847-619-6158 (outside) Passcode: 6881436#
Kavlico Fax: 805-523-7125

Core Team Participants

Black Belts	Kavlico	V-Engine	Quality Office	HESE	Purchasing
Mark Freeland	Mary Atkins	Jim O'Neill	Mahmoud Awad	Sheran Alles	Chris Nielsen
Shri Akiolkar	Don Ayers	Freeman Gates		Robert Rossi	Bill McCarty
Jon Janda	Kyong Park	Amy Poma			Shri Reddy
		Paul Plante		PCSE	
Team Leader	Visteon	Carol Verner		Ken Arnold	
Jim Maurer	John Jahshan			Brian Perry	

Meeting Agenda - 7/18/02

<u>Order of Agenda Items</u>	<u>Corr. Issue #</u>	<u>Person(s) Responsible</u>	<u>Time Allocated</u>
1. Raman spectroscopy results from SRL.	13, A13	Dairene Uy	20 minutes
2. Ongoing vehicle testing update.	16, A7	Jim McCoy	10 minutes
3. Issues Resolution July 15 mtg. Overview		Jon Janda	10 minutes
4. Kavlico's Agenda items for future meeting-when data will be available regarding: -Status of sensor w/Parylene Coating for fleet testing - Kavlico visit w/Ford for onsite 14D mtg. In August		All	5 minutes
5. Kavlico's report out on Motorola returns		Kyong Park	10 minutes
6. Kavlico's report out on Escape 2001.		Kyong Park	10 minutes
7. Walk Ins		All	

<u>Proposed Next Meeting Agenda 7/25/02</u>	<u>Person(s) Responsible</u>	<u>Time Estimated</u>

Notes

Bring handouts (paper copies) for all presentations
Provide electronic copies of presentations to apoma2 (no later than 1 hour prior to the meeting)
Please be on time as we have a full agenda

Jim Maurer/cp: 6/6/2003
Kavlico dPFE Sensor Core Team

From: Poma, Amy (A.)
Sent: Monday, July 16, 2002 8:35 AM
To: Akins, Mary (M.); Ales, Sheran (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahahan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Plants, Paul (P.G.); Poma, Amy (A.); Reddy, Srikanth; Ross, Roberto (R.A.); Verner, Carol (C.J.)

Team below please see note Jon asked me to forward regarding week end drives. If you have any questions, please contact him directly. Thanks.

The following people are the ONLY ones approved for week end drives:

Jim McCoy
Dennis Kryzske
Jim Maurer
Jerry Kazmer
Freeman Gates
Gary Ellul

It's expected that those on the list accumulate notable mileage.

Thank You,
Jon Janda

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

From: Poma, Amy (A.)
Sent: Wednesday, July 03, 2002 9:08 AM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoske, Pete (P.F.); Bansek, Catherine (C.K.); Barsuder, Lee (L.C.); Bissel, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danae, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hargas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerezl, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Oiaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nieleen, Christian (C.A.); O'Neill, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy; Popoff, Daniel (D.M.); Raquepau, Aldan (A.P.); Reddy, Srkanth; Rossi, Roberto (R.A.); Schiedling, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); Williamson, Richard (E.)
Subject: IMPORTANT PLEASE NOTE:TUESDAY/THURSDAY CHANGES IN MEETING FORMAT CHANGES

Please note the following changes in the 1:00 Tuesday and Thursday meetings.

All Tuesday meetings beginning July 9 will now be used as an extension of the Ford vehicle test team meeting on Monday and the CALL IN WILL NO LONGER BE HELD.

All Thursday meetings beginning July 18 will be the regular Kavlico/Ford meeting WITH THE CALL IN, however the next upcoming July 11th Thursday meeting will be a separate Ford only meeting to be dedicated to Wiring Harness Issues.

Please adjust your calendars accordingly.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

Subject: Updated: Kavlico dPFE Sensor Core Team Meeting
Location: POEE DJ-186 (War Room in FMEI Dept.)

Start: Tue 7/9/2002 1:00 PM
End: Tue 7/9/2002 2:30 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Tuesday from 1:00 PM to 2:30 PM

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Froeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); McCarty, Bill (W.D.); Nielsen, Christian (C.A.); O'Neall, Jim (J.D.); Park, kyong; Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy; Reddy, Srikanth; Rossi, Roberto (R.A.); Shore, John (J.)

Optional Attendees: Akins, Mary (M.); Plante, Paul (P.G.); Rossi, Roberto (R.A.); Maurer, James (J.B.); White-Johnson, Patricia (P.)

This is a continuation of our regular Tuesday meeting from May 28 through the rest of the year. Please accept in order to be noted on your calendars. Thanks.

Subject: Tuesday, July 2, 2002 meeting CANCELLED

Start: Tue 7/2/2002 1:00 PM
End: Tue 7/2/2002 2:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoeka, Pete (P.F.); Bansak, Catherine (C.K.); Barsudar, Lee (L.C.); Biasi, Gary (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danae, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freehand, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hanges, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerezi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Mutar, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neal, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy; Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Reddy, Srikanth; Rosal, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); Williamson, Richard (E.)

The Tuesday, July 2 Kavlico team meeting has been cancelled. Please note our next meeting will be Tuesday, July 9th due to the holiday this week.

From: Poma, Amy (A.)
Sent: Monday, July 01, 2002 1:07 PM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Aulier, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoake, Pete (P.F.); Bansek, Catherine (C.K.); Bersuder, Lee (L.C.); Bissi, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hangaas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Karazi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neal, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascary, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy; Popoff, Daniel (D.M.); Raquepau, Aiden (A.P.); Raddy, Srikanth; Rossi, Roberto (R.A.); Schleding, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); Williamson, Richard (E.)
Subject: Kavlico Tube Mounted dPFE Sensor: Vehicle Fleet Testing Update

Team-Attached is Vehicle Fleet Testing Update information that Carol Verner has asked me to forward to you.

Team,

Below is the latest update on both paralyene coated and non-paralyene coated sensors currently on Fleet vehicles for mileage accumulation testing.

Non-Paralyene Coated Sensors - (Dalsa Die):

- 23 on 4.6L Econoline Vans in Orlando, Florida. The fleet operates ground transportation servicing Disney Land, Universal Studios,..... etc in the area. These sensors did not have serial numbers on them. Sensor Installation dates range from 4/24/02 thru 6/3/02.

Paralyene Coated Sensors - (Semiconductor Die - ???????):

- 9 sensors are on 2.0L Focus in Naples, Florida. 2 are on Zetec engine cars and 7 are on SPI engine cars using jumpers to attach the tube-mounted dPFE to the wire harness assembly. This is a healthcare fleet so we may not be able to obtain high mileage as quickly as on the fleets listed above.

Sensor installation dates are 5/10/02 for one Zetec engine and 6/26/02 for the second Zetec and 7 SPI engines.

- 9 sensors on 3.6L Windstars in Las Vegas, Nevada. This is a Yellow Checker Star Taxicab fleet.

Non-paralyene coated, Dalsa die sensors (NPC) were taken off these 9 vans and replaced with paralyene coated sensors(PC). Sensor Serial number and mileage information is as follows. Sensor Installation Date: 5/27/02 & 5/28/02.

<u>Vehicle ID</u>	<u>Serial# (NPC)</u>	<u>Mileage Accumulated</u>	<u>Serial#(PC)</u>
207	143	15,200	51
20,810			
295	158	20,033	53
26,208			
1318	151	17,880	45
35,320			
1631	149	19,085	99
22,007			
1378	144	17,522	93
17,916			

1613	152	16,776	102
19,442			
1375	154	15,504	65
15,519			
2253	160	17,450	88
23,016			
1370	155	16,904	42
26,138			

I will provide updates as mileage accumulation information becomes available. We are working with independent fleet companies so we are not always able to obtain updates on a routine basis.

If you have any questions, you can reply directly to me at cverner@ford.com if you like rather than tie up the entire distribution list.

Carol Verner
313-390-7180
cverner@ford.com

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

From: Poma, Amy (A.)
Sent: Friday, June 21, 2002 11:00 AM
To: Akine, Mary (M.); Alias, Sheran (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Plantz, Paul (P.G.); Poma, Amy (A.); Raddy, Srikanth; Rossi, Roberto (R.A.); Verner, Carol (C.J.)
Subject: R. Rossi's IS/IS NOT statements

Team-

Below is Robert Rossi's statements for the teams review for Monday's June 24th meeting.

The following are my drafts of the Is/Is Not statements from the open assignments for the Monday meetings.

The cigar lighter/power point fuse opens in the field IS NOT a contributor to DPFE failures. This is based on the fact that on the Focus and Escape they do not share the same harnesses.

The Escape water entry concerns with connector C263 where battery voltage can short to the VREF IS NOT a contributor to DPFE failures. This is based on the fact that this failure rate is known to be low because the PCM will fail with this condition.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com*

Subject: CANCELLATION OF JULY 1, 2002 Issues Resolution mtg.
Location: POEE E103A pillar L-10

Start: Mon 7/1/2002 1:00 PM
End: Mon 7/1/2002 3:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Akina, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Frelsland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Plania, Paul (P.G.); Poma, Amy (A.); Reddy, Srikanth; Rossi, Roberto (R.A.); Vemer, Carol (C.J.)

Due to the vacation days during the 4th of July holiday week, the July 1 meeting is cancelled. We will resume on July 8.

From: Poma, Amy (A.)
Sent: Wednesday, June 19, 2002 9:08 AM
To: Freeland, Mark (M.)
Subject: RE: Driver for PCM J1 Tests

Let's try to get to it Thursday.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, June 18, 2002 6:12 PM
To: Poma, Amy (A.)
Subject: RE: Driver for PCM J1 Tests

OK Amy

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Poma, Amy (A.)
Sent: Tuesday, June 18, 2002 12:15 PM
To: Freeland, Mark (M.); Maurer, James (J.B.)
Cc: Brogley, Martin (M.A.); Plante, Paul (P.G.)
Subject: RE: Driver for PCM J1 Tests

Suggest we talk about it this afternoon at the meeting and decide.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, June 18, 2002 10:29 AM
To: Maurer, James (J.B.); Poma, Amy (A.)
Cc: Brogley, Martin (M.A.); Plante, Paul (P.G.)
Subject: Driver for PCM J1 Tests

Jim/Amy,

ERB2-827-G 17132

Martin Brogley at SRL drives 100 miles round trip per day, and has volunteered to accumulate test miles on one of the Foci if we wish. Please let me know if you would like to take advantage of this offer.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Poma, Amy (A.)
Sent: Tuesday, June 18, 2002 12:15 PM
To: Freeland, Mark (M.); Maurer, James (J.B.)
Cc: Brogley, Martin (M.A.); Plante, Paul (P.G.)
Subject: RE: Driver for PCM J1 Tests

Suggest we talk about it this afternoon at the meeting and decide.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CO162
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com

---Original Message---

From: Freeland, Mark (M.)
Sent: Tuesday, June 18, 2002 10:29 AM
To: Maurer, James (J.B.); Poma, Amy (A.)
Cc: Brogley, Martin (M.A.); Plante, Paul (P.G.)
Subject: Driver for PCM J1 Tests

Jim/Amy,

Martin Brogley at SRL drives 100 miles round trip per day, and has volunteered to accumulate test miles on one of the Foci if we wish. Please let me know if you would like to take advantage of this offer.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

Subject: Kavlico dPFE Sensor Team meeting
Location: POEE Bldg. FMEI War Room CR D1-196

Start: Thu 5/30/2002 1:00 PM
End: Thu 5/30/2002 3:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Thursday from 1:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandooske, Pete (P.F.); Bansok, Catherine (C.K.); Bereuder, Lee (L.C.); Blisal, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danes, Adam (A.V.); Davies, Brady; Deab, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galanta, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hargas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerazi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Mutar, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy (A.); Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Rossi, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); White-Johnson, Patrice (P.); Williamson, Richard (E.)

This is a continuation of our regularly scheduled Thursday 1:00-3:00 p.m. Kavlico Team meeting. If you have already received this notice, please disregard.

Subject: dPFE Sensor Team Meeting
Location: POEE Bldg. FMEI War Room CR DI-196

Start: Tue 5/28/2002 1:00 PM
End: Tue 5/28/2002 2:30 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Tuesday from 1:00 PM to 2:30 PM

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Alles, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoaka, Pete (P.F.); Baneeek, Catherine (C.K.); Berauder, Lee (L.C.); Biasi, Gery (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danes, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Freeland, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hangeas, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerezi, Karen (K.J.); Koszawnik, John (J.J.); Kunde, Olef (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Murar, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neil, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plants, Paul (P.G.); Poma, Amy (A.); Popoff, Daniel (D.M.); Raquepau, Alden (A.P.); Rossi, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); White-Johnson, Patrice (P.); Williamson, Richard (E.)

This is a continuation of our regularly scheduled Tuesday 1:00-2:30 p.m. Kavlico Team meeting. If you have already received the notice, please disregard.

Subject: Updated: Kavlico dPFE Sensor Core Team Meeting
Location: POEE DI 198 (War Room In FMEI Dept.)

Start: Thu 5/30/2002 1:00 PM
End: Thu 5/30/2002 3:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Thursday from 1:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Allee, Sharan (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Freeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); McCarty, Bill (W.D.); Nielsen, Christian (C.A.); O'Neal, Jim (J.D.); Park, Kyong; Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy (A.); Rossi, Roberto (R.A.); Shore, John (J.); White-Johnson, Patrice (P.)

Optional Attendees: Plante, Paul (P.G.); Akins, Mary (M.); Rossal, Roberto (R.A.); Maurer, James (J.B.); White-Johnson, Patrice (P.)

This is a continuation of our regularly scheduled Thursday meetings from 1:00-3:00 p.m. from May 30 through the rest of the year. Please accept so that your calendars can be noted. Thanks.

Subject: Kavlico dPFE Sensor Core Team Meeting
Location: POEE DI 196 (War Room in FMEI Dept.)

Start: Thu 5/30/2002 1:00 PM
End: Thu 5/30/2002 3:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Thursday from 1:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Allee, Sheran (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Freeland, Mark (M.); Gales, Freeman (F.C.); Maurer, James (J.B.); McCarty, Bill (W.D.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Perry, Brian (B.J.); Planta, Paul (P.G.); Poma, Amy (A.); Rossi, Roberto (R.A.); Shore, John (J.); White-johnson, Patrice (P.)

This is a continuation of our regularly scheduled Thursday meetings from 1:00-3:00 p.m. from May 30 through the rest of the year. Please accept so that your calendars can be noted. Thanks.

Subject: Kavlico dPFE Sensor Core Team Meeting
Location: POEE DI-198 (War Room in FMEI Dept.)

Start: Tue 5/28/2002 1:00 PM
End: Tue 5/28/2002 2:30 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Tuesday from 1:00 PM to 2:30 PM

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Ayers, Don; Freeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); McCarty, Bill (W.D.); Nielsen, Christian (C.A.); O'Neal, Jim (J.D.); Perry, Brian (B.J.); Pianta, Paul (P.G.); Poma, Amy (A.); Rossi, Roberto (R.A.); Shore, John (J.); White-Johnson, Patricia (P.)

This is a continuation of our regular Tuesday meeting from May 28 through the rest of the year. Please accept in order to be noted on your calendars. Thanks.

Subject: Issues Resolution
Location: POEE E103A-pillar L10

Start: Mon 6/3/2002 1:00 PM
End: Mon 6/3/2002 3:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Monday from 1:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Poma, Amy (A.); Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Pianta, Paul (P.G.); Poma, Amy (A.); Rassi, Roberia (R.A.); Verner, Carol (C.J.)

This is just a formal meeting notice of Paul Pianta's previously schedule recurring Monday meeting from 1-3:00 p.m. so it can automatically be placed on your Outlook calendars.

Thanks.

From: Poma, Amy (A.)
Sent: Friday, May 17, 2002 9:27 AM
To: Akins, Mary (M.); Akolkar, Shrikant (S.V.); Albrecht, Guenter (G.K.); Ailes, Sheran (S.A.); Arnold, Kenneth (K.M.); Auller, Jim (J.E.); Awad, Mahmoud (M.I.); Ayers, Don; Bandoske, Pete (P.F.); Bansek, Catherine (C.K.); Bersuder, Lee (L.C.); Bisei, Gerry (G.); Bronni, Mark (M.J.); Bugaj, Barry; Danas, Adam (A.V.); Davies, Brady; Deeb, Joe (J.S.); Douglass, Jim (J.B.); Fraeslend, Mark (M.); Galante, Chris (C.R.); Gates, Freeman (F.C.); Giordano, Mike (M.A.); Godlewski, Ed (E.V.); Hanges, Jon (.); Jahshan, John; Janda, Jon (J.M.); Johnson, Joe (J.H.); Kerezi, Karen (K.J.); Koszewnik, John (J.J.); Kunde, Olaf (O.); Masura, Gordon (G.P.); Maurer, James (J.B.); McCarty, Bill (W.D.); Muter, Doreen (D.J.); Nielsen, Christian (C.A.); O'Neill, Jim (J.D.); Oswald, Greg (G.G.); Park, Kyong; Pascany, Ken (K.M.); Perry, Brian (B.J.); Plante, Paul (P.G.); Poma, Amy (A.); Popoff, Daniel (D.M.); Raquetpau, Aiden (A.P.); Rossi, Roberto (R.A.); Schieding, Kurt (K.J.); Shore, John (J.); Tamashiro, Terry; Trujillo, Thomas (T.G.); Verner, Carol (C.J.); White-johnson, Patrice (P.); Williamson, Richard (E.)
Subject: Tuesday May 21st 1:00-2:30 p.m. meeting CANCELLED

Team,

Please be advised that due to Ford and Kavlico traveling to Analytical Solutions next week we will not be having our regularly scheduled meeting on Tuesday, May 21, 2002.

We will meet again on Thursday, May 23, 2002 at 1:00. I will be forwarding the Issues Deck and Agenda today.

Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CQ-156
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com

From: Poma, Amy (A.)
Sent: Friday, May 17, 2002 9:13 AM
To: Akina, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Pianta, Paul (P.G.); Poma, Amy (A.); Rossi, Roberto (R.A.); Verner, Carol (C.J.)

Team,

Attached are revised meeting notes that will be reviewed at Monday's May 20th meeting. Also attached is a separate revised Agenda.



apoma.doc



IssuesResolutionAgenda.doc

Although some team members will not be attending due to travel to Analytical Solutions we are still having the meeting. Please note the following Monday, May 27 is the Memorial Day holiday.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CQ-156
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com*

**DPFE Sensor Vehicle Issues Meeting, Monday 5/20/02 1:00-3:00 p.m.
POEE, E103A (pillar L10)**

Attendees:	Paul Plante	Mahmoud Awad	Mary Akins
	Amy Poma	Freeman Gates	John Jahshan
	Jim Maurer	Jon Janda	Mark Freeland
	Jim McCoy	Sheran Alles	Carol Vernor
	Robert Rossi	Shri Akolkar	

Meeting Objective: This is an issues resolution meeting. The objective being to address vehicle issues, decide if it is an IS/IS NOT Root Cause, with a delegation of assignments/collection of data to further discuss and bring to conclusion.

Assignments:

- **Paul Plante** – contact EESB chief engineering and establish the support required from that office for this team.
- **Shri Akolkar** – Powertrain applications – get pressure, pulsation and temperature information. John to get with Freeman to define what requirements are necessary for the test and to make sure the vehicles being used are the same. Proposed vehicles are:
 - 4.6L SOHC F-Series
 - 4.6L SOHC Econoline
 - 4.2L OHV F-Series
 - 4.2L OHV Econoline

Freeman Gates-Determine if exhaust gas at the sensor contains acids. Run test on vehicle with sensor fitted with litmus paper (from K. Park).

- **Jim McCoy**-leader – Study non-standard sensor current and voltage for the "best of the best" to the "worst of the worst" vehicles.
 - 4.0L 2002 Explorer-need to establish month of production for low warranty condition. (best)
 - 2.0L Alan Ford Zetec Focus (worst) original PCM. Paul will check with Marty on car status.

Need to collectively test a variety of different concepts that cause transient noise:
Transient noise coming out of V-ref to be checked: (C=connections, G=grounds).
C270B, C270C, C270D, C110, C133, G300, G100, G104, G105 and G101.

Concepts decided for discussion of 20 minutes each at next week's May 20th meeting:

1. J1-PCM solder
2. C-90 connector intermittent
3. Cigarette lighter does not work or fuse blows indicating electrical short in harness
4. Alternator
5. Escape-brake pedal switch connector.

The next meeting is scheduled for Monday, May 20, 2002 in conference room E103A. Please bring 13 copies of your issues to present and discuss. If you are unable to attend but would like to call it, please contact me in advance and I will obtain a conference call phone for the room. Apoma2@ford.com.

**Issues Resolution Meeting Agenda
Monday, May 20, 2002
POEE CR E103A**

- | | |
|--|-------------------|
| 1. J1-PCM solder | 20 minutes |
| 2. C-90 connector intermittent | 20 minutes |
| 3. Cigarette lighter does not work or fuse
Blows indicating electrical short in harness | 20 minutes |
| 4. Alternator | 20 minutes |
| 5. Escape-brake pedal switch connector | 20 minutes |
| 6. New topics/walkins | 20 minutes |
| 7. Kavlico's request to acquire car for testing | 20 minutes |

From: Poma, Amy (A.)
Sent: Friday, May 17, 2002 8:14 AM
To: Freeland, Mark (M.)
Subject: RE: Monday, May 13, 2002 Meeting Notes

Thanks for the note. I will be sending out a nota. The Tuesday May 21st meeting is being cancelled. FYI, Paul is still having his Monday 1-3. We were going to cancel but then realized the following Monday is Memorial Day and it would be too long until the next meeting so he then decided to have Monday's May 20th meeting. I will forward any notes.

Have a good trip.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CQ-156
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

---Original Message---

From: Freeland, Mark (M.)
Sent: Thursday, May 16, 2002 7:47 PM
To: Poma, Amy (A.)
Subject: RE: Monday, May 13, 2002 Meeting Notes

Amy,

I will not be at the meeting as I will be at Analytical Solutions with Freeman & Jim.
See you on the 23rd.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

---Original Message---

From: Poma, Amy (A.)
Sent: Wednesday, May 15, 2002 10:49 AM
To: Akina, Mary (M.); Ailes, Sheran (S.A.); Awad, Mahmoud (M.L.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jehshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Planta, Paul (P.G.); Poma, Amy (A.); Rossi, Roberto (R.A.); Verner, Carol (C.J.)
Subject: Monday, May 13, 2002 Meeting Notes

Team-

Attached please find notes from the May 13th meeting. Also attached is the Agenda for May 20th.

<< File: IssuesResolutionMtg.doc >>

ER02-627-G 17279

<< File: IssuesResolutionAgenda.doc >>

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CQ-156
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com*

From: Poma, Amy (A.)
Sent: Wednesday, May 15, 2002 1:41 PM
To: Freeland, Mark (M.)
Subject: Added Agenda Item

Mark,

I'm sorry I missed adding your item of Vin numbers from RO numbers on the Agenda. I hadn't check back to my email to see it until after I sent it out.

There is plenty of time at Thursday's meeting so consider it on the agenda.

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, JMEI Cube CQ-156
phone-313-390-8849, fax: 313-390-4084
apoma2@ford.com*

From: Poma, Amy (A.)
Sent: Wednesday, May 15, 2002 10:49 AM
To: Akins, Mary (M.); Alias, Sheron (S.A.); Awad, Mahmoud (M.I.); Freeland, Mark (M.); Gates, Freeman (F.C.); Janda, Jon (J.M.); John Jahshan (E-mail); Maurer, James (J.B.); McCoy, James (J.D.); Planta, Paul (P.G.); Poma, Amy (A.); Rossi, Roberto (R.A.); Vamer, Carol (C.J.)
Subject: Monday, May 13, 2002 Meeting Notes

Team-

Attached please find notes from the May 13th meeting. Also attached is the Agenda for May 20th.



IssuesResolutionMt
g.doc



IssuesResolutionAg
enda.doc

*Amy Poma
V-Engine Engineering-Project Mgmt.
POEE Building, FMEI Cube CQ-156
phone-313-390-8849, fax: 313-390-4084
apomaz@ford.com*

**DPFE Sensor Vehicle Issues Meeting, Monday 5/20/02 1:00-3:00 p.m.
POEE, E103A (pillar L10)**

Attendees:	Paul Plante	Mahmoud Awad	Mary Akins
	Amy Poma	Freeman Gates	John Jahshan
	Jim Maurer	Jon Janda	Mark Freeland
	Jim McCoy	Sheran Alles-no	Carol Vernor-no
	Robert Rossi-no		

Meeting Objective: This is an issues resolution meeting. The objective being to address vehicle issues, decide if it is an IS/IS NOT Root Cause, with a delegation of assignments/collection of data to further discuss and bring to conclusion.

Assignments:

- **Paul Plante** – contact EESE chief engineering and establish the support required from that office for this team.
- **John Jahshan/Freeman Gates** – Powertrain applications – get pressure, pulsation and temperature information. John to get with Freeman to define what requirements are necessary for the test and to make sure the vehicles being used are the same. Proposed vehicles are:
 - 4.6L SOHC F-Series
 - 4.6L SOHC Econoline
 - 4.2L OHV F-Series
 - 4.2L OHV Econoline
- **Jim McCoy-leader** – Study non-standard sensor current and voltage for the "best of the best" to the "worst of the worst" vehicles.
 - 4.0L 2002 Explorer-need to establish month of production for low warranty condition. (best)
 - 2.0L Alan Ford Zetec Focus (worst) original PCM. Paul will check with Marty on car status.

Need to collectively test a variety of different concepts that cause transient noise:
Transient noise coming out of V-ref to be checked: (C=connections, G=grounds).
C270B, C270C, C270D, C110, C133, G300, G100, G104, G105 and G101.

Concepts decided for discussion of 20 minutes each at next week's May 20th meeting:

1. J1-PCM solder
2. C-90 connector intermittent
3. Cigarette lighter does not work or fuse blows indicating electrical short in harness
4. Alternator
5. Escape-brake pedal switch connector.

The next meeting is scheduled for Monday, May 20, 2002 in conference room E103A. Please bring 13 copies of your issues to present and discuss. If you are unable to attend but would like to call it, please contact me in advance and I will obtain a conference call phone for the room.
Apoma2@ford.com.

**Issues Resolution Meeting Agenda
Monday, May 20, 2002
POEE CR E103A**

- | | |
|--|-------------------|
| 1. J1-PCM solder | 20 minutes |
| 2. C-90 connector intermittent | 20 minutes |
| 3. Cigarette lighter does not work or fuse
Blows indicating electrical short in harness | 20 minutes |
| 4. Alternator | 20 minutes |
| 5. Escape-brake pedal switch connector | 20 minutes |
| 6. New topics/walkies | 20 minutes |

From: Potter, Timothy (T.J.)
Sent: Tuesday, December 03, 2002 12:33 PM
To: Freeland, Mark (M.)
Subject: RE: My car's DPFE was acting strange this weekend.

Mark,

The current has been running about 7mA for a couple of months, and it was the same through the trip.

The reason I shut off the engine was to reset the CMOS, but it had little effect. Your idea of the EGR valve sticking or not getting a command to open is what I expected was the problem. I thought you might want to know such failures might occur and the DPFE does not fall.

Tim

—Original Message—

From: Freeland, Mark (M.)
Sent: Tuesday, December 03, 2002 10:43 AM
To: Potter, Timothy (T.J.)
Subject: RE: My car's DPFE was acting strange this weekend.

Thanks for the input Tim.

One of the behaviors I have observed when a sensor is in the latch is for it's output to be frozen at the 0 delta pressure reading (like the 1.01 - 1.02 Volts you observed). So it is possible that the sensor was in the latched state. However if it were you would see a higher than normal reading on the meter which shows current.

Do you recall what you observed on the voltage across the 1 ohm resistor?

It is, as you observed, highly unusual for there to be a steady reading at 1.0 volts for an extended period of time. This indicates that either the DPFE was not working, or something else was causing there to be no EGR demand from the PCM, or a failure of the EGR valve or wiring caused no EGR flow.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

—Original Message—

From: Potter, Timothy (T.J.)
Sent: Monday, December 02, 2002 8:40 AM
To: Freeland, Mark (M.)
Subject: My car's DPFE was acting strange this weekend.

Mark,

I noticed that the DPFE output was at 1.02V while I was running at 70mph on the way to my parents for the holiday Wednesday. The value did not change whether I was going up hill or down. I noticed the low value near Lansing. I waited for a time when there were not any cars within half mile or so of me and kicked off the

cruise control, slipped the transmission into neutral, and shut off the engine for a count of 5. I restarted the engine and resumed 70mph from a little over 60mph. The output value started out low, 0.98V but quickly went back to 1.01 - 1.02V and stayed there. I repeated the procedure for a count of 15 near Portland in a place where traffic was well away from me. I hoped that I might reset the CMOS by shutting off the power. I also wanted to do let the system go through three starts to see if the engine light would come on. I did not get another opportunity to shut down until I was off the highway and through Lowell. There I pulled off the road, and shut off the engine for a full minute. When I resumed the output started low, and then went to 1.53V or so as I gained speed, but quickly settled back to 1.01-1.02V and stayed there over hills and through dales.

While I was on the farm, I had my father watch the meter while I pressed my thumb over the two pressure connectors. The value went up when one was pressed, and dropped when I pressed on the other connection as I would expect from a functioning sensor. That test seemed to say the sensor was working.

On the trip back across the state, the pressure sensor was at 1.02V every time I checked it. The roads were slick in places, and I had plenty of company, so I did not watch it very steadily.

When I was driving yesterday, the system seemed to be operating normally. I saw values of 2.53V a couple of times driving in town here.

I have driven while monitoring the DPFE output enough to know that the readings of the trip across the state and back were not normal. But I don't understand what was going on. I let you know this for your mind to try to fit this data into the puzzle of the DPFE failures, or there maybe another failure occurring in parallel with the DPFE failures.

Tim

From: Potter, Timothy (T.J.)
Sent: Monday, December 02, 2002 8:40 AM
To: Freeland, Mark (M.)
Subject: My car's DPFE was acting strange this weekend.

Mark,

I noticed that the DPFE output was at 1.02V while I was running at 70mph on the way to my parents for the holiday Wednesday. The value did not change whether I was going up hill or down. I noticed the low value near Lansing. I waited for a time when there were not any cars within half mile or so of me and kicked off the cruise control, slipped the transmission into neutral, and shut off the engine for a count of 5. I restarted the engine and resumed 70mph from a little over 60mph. The output value started out low, 0.98V but quickly went back to 1.01 - 1.02V and stayed there. I repeated the procedure for a count of 15 near Portland in a place where traffic was well away from me. I hoped that I might reset the CMOS by shutting off the power. I also wanted to do let the system go through three starts to see if the engine light would come on. I did not get another opportunity to shut down until I was off the highway and through Lowell. There I pulled off the road, and shut off the engine for a full minute. When I resumed the output started low, and then went to 1.53V or so as I gained speed, but quickly settled back to 1.01-1.02V and stayed there over hills and through dales.

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Tim

From: Patter, Timothy (T.J.)
Sent: Tuesday, June 18, 2002 2:49 PM
To: Freeland, Mark (M.)
Subject: Oscilloscope

Mark,

The Tektronix scope I borrowed is in use by it's owner. I called Electro-Rent and all of their TDK 3054's are rented. They do have a TDS3014 which is a 100MHz scope. The scope rents for \$378/mo plus \$48/mo for the battery pack. If you want that call Arvid at Electro-Rent at (800) 688-1111 then dial 9 and 3189. They can get it here in a day or two normally.

Tim

From: Potter, Timothy (T.J.)
Sent: Tuesday, May 14, 2002 2:31 PM
To: Freeland, Mark (M.)
Subject: Current measurement on your lease car.

Mark,

I was thinking about the measurement of current on your lease car. If the sensor does begin to draw 1.00 amp, that is 1.0 watt of power being released in a 1.00 ohm resistor. A quarter watt resistor will burn out in a short time at that power drop. I think you expressed concern that a wire wound resistor would add unacceptable inductance into the circuit.

Tim

From: Potter, Timothy (T.J.)
Sent: Friday, May 10, 2002 8:19 AM
To: Freeland, Mark (M.)
Subject: Yokogawa files

Mark,

I checked the files I put onto the shared drive and discovered that the time base had not been saved. I regenerated the files with smaller portions of the original data files. I also made sure that you can make a Excel graph of the data. I got carried away and so I saved the Excel files in the same directory. You may want to blow up or graph separately the Vref current, but I already spent too much time fussing with Microsoft.

Tim

From: Potter, Timothy (T.J.)
Sent: Wednesday, May 08, 2002 10:36 AM
To: Freeland, Mark (M.)
Subject: RE: Active Current Probe for Buy Back Focus

It depends on the current draw.

—Original Message—

From: Freeland, Mark (M.)
Sent: Wednesday, May 08, 2002 10:34 AM
To: John Jahshan (E-mail)
Cc: Potter, Timothy (T.J.)
Subject: Active Current Probe for Buy Back Focus

John,

I still want to take you up on you're offer of an active current probe for the Buy Back Focus I we are driving at SRL. When do you think we could have it?

Tim,

When John gives us the probe, will the existing DC to AC converter handle an extra box? Would you please install it? Thanks

Regards

Mark Freeland

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Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Potter, Timothy (T.J.)
Sent: Wednesday, May 01, 2002 3:35 PM
To: Freeland, Mark (M.)
Subject: Breakout Box Parts

Mark,

Here is the list of parts I used and some tips I pass on to whoever is going to build these boxes for other cars. I have ordered a couple of extra DC-DC converters since they are cheap and have long lead times. I think we will have them on Monday. That will allow us to finish the box for the Five-Speed Focus Jon Jonshan wants to use.

Tim.



BreakoutBox.doc

Parts used in sensor breakout box on Focus.

Description	Model #	Manufacturer	Newark Part #
Current Monitor	2877	Pearson Electronics	
ON-NONE-(ON) DPDT Switch	7208	C&K	21F659
25.5Ω 1Watt Resistor	RN60D25R5F	Dale	
12 to 5Volt DC-DC converter	PC1R5-12-5	Lambda	Special

In passenger compartment:

DC-AC Inverter	ProWatt 250	Statpower	01F271
0-20Volt DC Voltmeter	M235-1-2-13-0	Simpson	Special

In Box

1hp Toggle switch

30amp Fuse

I made a Y by cutting up a couple of sensor connection tubes at the proper angles, and gluing them together in a Y form to allow a test and control sensor to be installed on the engine. I used Silicone Rubber as the glue because it adhered to the tubing, but it is not very mechanically strong. With a little care the Y lasted for several months.

All parts in the Sensor Breakout Box fit a 2.75"x2.125"x1.625" Bud box. I recommend that both sensor connectors and the connector piece cut off an old sensor be glued into the largest side of the box. That orientation allows the easiest connections to be made to two sensors on a Y and the sensor connector off the loom to be plugged in. The connections that were inside the sensor on the sensor connector need to be filed down to copper so that wires can be soldered to them.

I have changed the system from the drawings of Jim McCoy in the passenger compartment so the meters are now powered off the switch box to the inverter. With that change only one flip of a switch powers up the whole system.

Tim Potter

tpotter1

50887

From: Potter, Timothy (T.J.)
Sent: Thursday, April 25, 2002 2:35 PM
To: Freeland, Mark (M.)
Subject: FW: pats

Mark,

Below is the pats web site.

Here are what I thought were the pertinent paragraphs:

- PATS uses a specially encoded ignition key. Each encoded ignition key contains a permanently installed electronic device called a Transponder. Each Transponder contains a unique electronic identification code out of over 4 million-billion combinations respectively an encrypted code.
- Each encoded ignition key must be programmed into a vehicle's control module (on an increasing number of applications this is part of the Powertrain Control Module PCM) before it can be used to operate the engine. There are special diagnostic service procedures outlined in the manual that must be performed if the encoded ignition keys need to be replaced.
- A minimum of two (2) Encoded Ignition Keys must be programmed to a vehicle in order for the vehicle to start. A maximum of eight (8) Encoded Ignition Keys can be programmed to a vehicle.
- When the Powertrain Control Module (PCM) is replaced, special diagnostic test procedures must be followed in order to enable engine operation.

Tim

---Original Message---

From: Corcoran, Bill (W.C.)
Sent: Thursday, April 25, 2002 1:55 PM
To: Potter, Timothy (T.J.)
Subject: pats

<http://www.merkanich.ford.com/~avteesa/security/pats/index.htm>

Bill Corcoran
Focus Powertrain Development
ph 313-845-4972 fax 313-323-2847

From: Potter, Timothy (T.J.)
Sent: Tuesday, April 23, 2002 11:29 AM
To: Freeland, Mark (M.)
Subject: DC-DC Converter.

Mark,

Newark finally got back to me as to how long the DC-DC Converter will take. It is a made to order part with a 10 week lead time. That means we will not have the 12V to 5V converter for the stick shift car until July. Should I look for another source?

Tim.

From: Power, James (J.H.)
Sent: Wednesday, December 04, 2002 4:21 PM
To: MATT (E-mail); Ahmed, Masood (M.); Pletta, Shari Finn (S.F.); Elwell, Fred (F.); Goodwin, William (W.R.); Rutkowski, Brian (B.D.); Freeland, Mark (M.); Czekaia, Michael (M.D.); 'kathleen.church@honeywell.com'
Subject: Low resistor issue.

Current status of activities:

Matt Below has completed process parameter study identifying some optimization actions that he can implement and is having meetings this week with in-plant personnel to set up procedure.

Samples of failed parts (low resistance) have been xrayed once for initial eval and are being separated from the rest of the plug by cutting and grinding off the ceramic to possibly improve xray resolution. Non-failures are being simultaneously evaluated.

After completion of xray work, these parts will be subjected to intensive microscopy or other minute examination followed by chemical discovery analysis. Kathleen Church is mining the production data pertaining to resistor batch processing or other particulars associated with the build in that time frame. Several records are normally stored associated with both processing and incoming inspection parameters.

Mathew is instructed to hasten the implementation of the optimization effort.

In view of the 'as we speak' actions that will arrive at some level of completion within a week or two, I recommend we hold discussion with interested consumers such as Hans in Europe for the week of 12/15 when we can show progress.

Fred, please add comments and forward to Mr Raetzger (spelling by guesswork).

From: Power, James (J.H.)
Sent: Friday, November 22, 2002 12:22 PM
To: Maurer, James (J.B.); Goodwin, William (W.R.)
Cc: Freeland, Mark (M.)
Subject: FW: LVR latest information on Vehicle testing

Jim, is that vehicle still available for evaluation? Bill, maybe we should look at this one instead of the Escapes.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, November 18, 2002 6:05 PM
To: Power, James (J.H.)
Cc: Alles, Sheran (S.A.)
Subject: RE: LVR latest information on Vehicle testing

Jim,

Do you know if the red and yellow vehicles have ferrites in their coil springs? Also, have either of these vehicles ever stalled in their history?

I would suggest that a better vehicle to test the effect of low LVR plugs would be one which has a history of stalling, like the green Focus which Jim Maurer has at MPG. It was towed in to Allen Ford on 4/1/2002 with high current failed dPFE sensor, and has failed a second dPFE after about a month of driving at MPG. I suspect that this vehicle has the "path" to conduct the RF noise to the 5 volt subsystem.

If you want data to substantiate that low LVR can cause current production Ford vehicles a problem, you should talk with Sheran Alles from EESE. He diagnosed a LVR as being root cause for control module resets and stalls on an alternative fuel F150 a few months back.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Power, James (J.H.)
Sent: Monday, November 18, 2002 10:48 AM
To: Freeland, Mark (M.); Rutkowski, Brian (B.D.)
Subject: FW: LVR latest information on Vehicle testing

Info

-----Original Message-----

From: Goodwin, William (W.R.)
Sent: Monday, November 18, 2002 10:45 AM
To: Power, James (J.H.); Pietta, Sheri Finn (S.F.)
Subject: LVR latest information on Vehicle testing

Jim and Sheri,

EA82-827-G 17378

I wanted to update you on a few items regarding the LVR issue:

1. Yellow Escape—This has 3 100 ohm spark plugs in right bank and 0 ohm plugs in left bank. No issues noted to date on this vehicle.
2. Red Escape—This has 6 0 ohm plug in it and just returned from Ypsi pencil coil development testing. No issues noted
3. 2002 Mazda MPV—3 0 ohm spark plugs placed in lh bank (with non ferrite coils). We had no issues which were directly attributable to the 0 ohm plugs, but we do have a transmission shift issue at 3000 RPM at high vehicle speeds that needs to be investigated further. The vehicle is currently apart to put 3 0 ohm plugs in the right bank and install non ferrite coils.
4. Discussions with Jaguar—I contacted Steve Large to discuss the lvr issue that they observed a few years ago. He noted that this was associated with a standalone throttle control module, which is no longer in their production vehicles. They did a lessoned learned assessment of prior program issue and decided that they should start to do some vehicle evaluation with 0 Ohm plugs. They have been running a car around with 0 ohm plugs with no issues.

Looking forward, here are the next steps as I see them:

- A. We still need an understanding of the RFI characteristics of the 100ohm spark plug compared to a 0 ohm (Cispr box work at Honeywell)
- B. I will be attempting to contact a Mazda MPV person to get similar detail as I received from Jaguar.
- C. As Jim and I discussed this morning, we should have a more substantial review of Coef of Thermal expansion for the glass and alumina material sets. This might help determine if we might be generating a propensity to cracking in the glass that creates a path for nickel conductivity.

Regards,

Bill Goodwin

Product Design Engineer, Ignition Systems

V Engine Engineering, Ford Motor Company

Tel: 313 337-8579 Fax: 313 390-4084

email: wgoodwin@ford.com

textpage mailto:3137860571@alphapage.airtouch.com

From: Power, James (J.H.)
Sent: Monday, November 18, 2002 10:48 AM
To: Freeland, Mark (M.); Rutkowiak, Brian (B.D.)
Subject: FW: LVR latest information on Vehicle testing

info

-----Original Message-----

From: Goodwin, William (W.R.)
Sent: Monday, November 18, 2002 10:45 AM
To: Power, James (J.H.); Pietta, Shari Finn (S.F.)
Subject: LVR latest information on Vehicle testing

Jim and Shari,

I wanted to update you on a few items regarding the LVR issue:

1. *Yellow Escape*—This has 3 100 ohm spark plugs in right bank and 0 ohm plugs in left bank. No issues noted to date on this vehicle.
2. *Red Escape*—This has 0 0 ohm plug in it and just returned from Ypsil pencil coil development testing. No issues noted
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Regards,

Bill Goodwin
Product Design Engineer, Ignition Systems
V Engine Engineering, Ford Motor Company
Tel: 313 337-0570 Fax: 313 390-4084
email: wgoodwin@ford.com
textpage mailto:3137980571@alphapage.airtouch.com

From: Power, James (J.H.)
Sent: Tuesday, October 22, 2002 10:45 AM
To: Freeland, Mark (M.); Pietta, Shari Finn (S.F.)
Subject: RE: Effect of changing the spark plugs on the Mountaineer

Mark, Shari is developing a vested interest in this subject. You should talk. Shari, read Mark's note below.

Jim, Dennis, or Gary,

Could any of you spare 30 minutes - 1 hour to help me determine what systems might be affected by low resistance (>2kOhms) spark plugs? Specifically, I would want to know what signals I could read that might be changed by the reflected noise. We currently know that there is some quantity of low resistance plugs in the field, but I'm unable to determine the size of the potential problem.

Thanks, in advance.

Regards,

Shari (Finn) Pietta

---Original Message---

From: Freeland, Mark (M.)
Sent: Tuesday, October 22, 2002 10:26 AM
To: Maurer, James (J.B.); Ailes, Sheran (S.A.); McCoy, James (J.D.)
Cc: Kobwicki, Allan (A.J.); Gates, Freeman (F.C.); O'Neill, Jim (J.D.); Elwell, Fred (F.); Power, James (J.H.); Boran, Lisa (L.T.)
Subject: Effect of changing the spark plugs on the Mountaineer

Jim,

As you know Fred Elwell and Jim Power replaced the spark plugs on my lease Mountaineer yesterday. They confirmed that the "bad" plug still had a resistance of less than 200 ohms. (I think the number they measured was 194 ohms for #4 plug).

The result on my drive evaluation last night was as follows:

The maximum Peak to Peak amplitude of the HF noise on Vraf (as measured by the instrumentation set up) during accelerations reduced from 41 volts to 17 volts. This was a tremendous reduction.

I can no longer find the micro latch events which I have been recording with my instrument pick ups located between the filter and the unprotected dPFE (i.e. C2, C5 & Z1 removed from a 2001 MY sensor).

We should discuss the possibility of replacing spark plugs as part of the fix package. Perhaps there is some simple tool which could be used to identify if a vehicle has noisy plugs without removing the plugs? Does anyone know of such a tool, perhaps an RF "sniffer"?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517

EA82-827-G 17387

Dearborn, MI 48121-2053 USA
email: rufrecla1@ford.com
Tel.: (313) 594-7645

Structured **I**nventive **T**hinking at work

From: Renouf, Joe (J.H.)
Sent: Thursday, April 11, 2002 1:44 PM
To: Freeland, Mark (M.)
Subject: PE02-040 Investigation Meeting

Mark,

You were invited to our kick off meeting regarding the Focus stalling issue and we talked about the issue by phone. The decision has been made that we will be answering the questions as asked, only in regard to the FDM and stalling. We will address other issues that can cause stalling separately. Therefore, you will not have to attend the 2:00PM 4/12 meeting. I don't want to take up your time needlessly.

Thank you for the information you gave me during our call and I may need to talk to you again at a later date.

Regards,

Joe Renouf: Automotive Safety Office
Fairlane Plaza South, 330 Town Center Drive, Suite 500
(313) 32-31603 Fax (313) 59-42288 Internet: jrenouf@ford.com

From: Research Computer Systems Help Desk [reshelp@penelope.srl.ford.com]
Sent: Thursday, June 20, 2002 1:43 PM
To: mejakov1@ford.com; mencelew@ford.com; meverson@ford.com;
mfalandi@sys2.pose.pose.ford.com; mfalce@ford.com; mferral@ford.com;
mfitch@ford.com; mflory@ford.com; mfodor1@ford.com; mfranc21@ford.com;
mfrantze@ford.com; mfree1@ford.com; mfred@ford.com; mfredma@ford.com; mgabrie4
@ford.com; mgerhart@ford.com; mgates@ford.com; mgoebelb@ford.com;
mgoosman@ford.com
Subject: Electrochemical and Surface Analytical Methods

Title: Electrochemical and Surface Analytical Methods of
Studying Materials Corrosion Processes

Speaker: Professor David Shoesmith
Department of Chemistry
The University of Western Ontario

Date: Tuesday, July 16, 2002

Time: 1:00 PM - 2:00 PM

Location: SRL Room No. 1133

Our research covers a wide range of areas in materials and corrosion science, with a primary focus on the development of corrosion models. The presentation will concentrate on some of the many electrochemical and supplementary surface analytical methods we use to look at a range of corrosion processes. These include the formation, dissolution and hydrogen permeability of thin (nanometer) oxide films on metals and alloys, current and potential signals generated by oxide film breakdown/repair processes and corrosion site growth processes in creviced areas, the kinetics of oxygen and hydrogen peroxide redox processes at corroding surfaces, and the influence of metallurgical features on localized corrosion processes. Supplementary surface analytical techniques we use include X-ray photoelectron spectroscopy, time-of-flight mass spectrometry, neutron reflectometry and photoelectrochemistry.

Contact: Robert C. McCune
(313) 845-0610
rmccune@ford.com

FRL Announcements: <http://www.srl.ford.com/frlannnc/pages/2521.html>

Subject: Updated: Review Electrical Paper to Be Presented at Thursday, July 11th DPFE Meeting
Location: Ray's Office 13B074

Start: Thu 7/11/2002 10:30 AM
End: Thu 7/11/2002 11:30 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Rossi, Roberto (R.A.); Bzymek, Raymond (R.); Freeland, Mark (M.)
Optional Attendees: Ales, Sheran (S.A.); Hemann, Thomas (T.J.)

Subject: Updated: Review Electrical Paper to Be Presented at Thursday, July 11th DPFE Meeting
Location: Ray's Office 13B074

Start: Thu 7/11/2002 10:30 AM
End: Thu 7/11/2002 11:30 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Rosai, Roberto (R.A.); Bzymek, Raymond (R.); Freeland, Mark (M.)
Optional Attendees: Ales, Sheran (S.A.); Hermann, Thomas (T.J.)

From: Rossi, Roberto (R.A.)
Sent: Friday, June 28, 2002 8:30 AM
To: Freeland, Mark (M.); Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Gates, Freeman (F.C.); 'Jahshan, John'; Janda, Jon (J.M.); Maurer, James (J.B.); O'Neill, Jim (J.D.); 'Park, Kyong'; Plante, Paul (P.G.); Poma, Amy (A.); McCoy, James (J.D.); Czekala, Michael (M.D.); Frazier, Keith (R.K.)
Subject: RE: Sample Waveform Showing Noise Coupled Into Test Wiring

Mark,

I think the various levels of high frequency noise that you are seeing might be due to changes with the ignition system. I have seen this before but I can not explain what changes in the coil, spark plug or cylinder that causes this change.

I do know that I did previously work on an issue with the aluminum DPFE sensor from Kavlico that caused the PCM to intermittently reset. The issue found here was that the DPFE sensor had a capacitor connected directly to the case of the sensor and the PCM inputs. The case of the sensor was grounded to the engine block.

The capacitor directly connected to the engine block and the PCM input is a low impedance path at high frequencies. The noise generated by the ignition system would couple a significant amount of energy into the PCM through the capacitor and cause it to reset. The present DPFE sensor design does not have this problem because the sensor is isolated from the engine block.

Possibly Mike Czekala, Jim McCoy, Jim Maurer or Keith Frazier might be able to explain what changes in the ignition system to cause the amount of noise generated by the ignition system to change significantly.

Additionally, the previous waveform that I sent was with coaxial cable. The signals were unshielded for approximately 5 inches which was just enough to connect the wires.

Thanks,

Robert

-----Original Message-----

From: Freeland, Mark (M.)
To: Rossi, Roberto (R.A.); Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Gates, Freeman (F.C.); 'Jahshan, John'; Janda, Jon (J.M.); Maurer, James (J.B.); O'Neill, Jim (J.D.); 'Park, Kyong'; Plante, Paul (P.G.); Poma, Amy (A.); McCoy, James (J.D.)
Sent: 6/27/02 6:22 PM
Subject: RE: Sample Waveform Showing Noise Coupled Into Test Wiring

Roberto,

Thank you for the cautionary information regarding being careful when looking at high frequency signals. The wiring between the sensor and the DVM's is a screened cable, and between the DVM & the scope was a twisted pair. I am replacing the twisted pairs with coax and adding a Pearson ring tonight. Any other suggestions to improve the instrumentation set up on the vehicle? If you had such a thing as a optical isolator available which would float

ER02-027-G 17403

the scope relative to the dPFE signals that might also improve things. I do not have such a beast, do you have one that I might borrow? Can you offer an explanation as to why the Vout signal recorded at idle on page 5 might be so different to the Vout signal recorded at idle on page six (about one hour later). The scope settings, and Vout wiring been the same undisturbed.

Regards

Mark Freeland

>6-Sigma Black Belt
>Engine Research Department
>Ford Research Laboratory
>P.O. Box 2053
>MD 2629 - SRL - Room 1517
>Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

> -----Original Message-----

>From: Rossi, Roberto (R.A.)
>Sent: Thursday, June 27, 2002 5:29 PM
>To: Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.);
>Gates, Freeman (F.C.); 'Jahshan, John'; Janda, Jon (J.M.); Maurer,
>James (J.B.); O'Neill, Jim (J.D.); 'Park, Kyong'; Plante, Paul (P.G.);
>Poma, Amy (A.); Freeland, Mark (M.); McCoy, James (J.D.)
>Subject: Sample Waveform Showing Noise Coupled Into Test Wiring

>

>

>As a follow-up from the meeting today, the following waveform is a
>recording from a vehicle being instrumented by Jim McCoy. The peak to
>peak voltage is approximately 40 Volts. The signal being monitored is
>the Scope Reference signal (not connected to anything except the scope
>ground). The object of the test was to demonstrate that when trying to
>capture high frequencies signals (>1 MHz) great care must be taken with
>respect to shielding oscilloscopes measurement wires.

>

>

> << OLE Object: Microsoft Photo Editor 3.0 Picture >>

>

>An additional comment is that if the sensor on Mark's vehicle was
>actually seeing the 13 Volts (10 MHz) noise on the sensor Vout the
>current flowing in the circuit should be Amperes because of the 220 nF
>capacitor that is on the Vout circuit of the sensor (impedance of Vout
>is very low at high frequencies $X=1/(2*PI*Frequency*Capacitance)$).

>

>Thanks,

>

>

>Robert Rossi
>Electrical/Electronic Systems Campaign Prevention Specialist
>North American Car Lifestyle Vehicles
>Phone/Fax: 84-51436

>

From: Rossi, Roberto (R.A.)
Sent: Friday, June 28, 2002 8:30 AM
To: Freeland, Mark (M.); Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Gates, Freeman (F.C.); 'Jahshan, John'; Janda, Jon (J.M.); Maurer, James (J.B.); O'Neill, Jim (J.D.); 'Park, Kyong'; Plante, Paul (P.G.); Poma, Amy (A.); McCoy, James (J.D.); Czekała, Michael (M.D.); Frazier, Keith (R.K.)
Subject: RE: Sample Waveform Showing Noise Coupled Into Test Wiring

Mark,

I think the various levels of high frequency noise that you are seeing might be due to changes with the ignition system. I have seen this before but I can not explain what changes in the coil, spark plug or cylinder that causes this change.

I do know that I did previously work on an issue with the aluminum DPFE sensor from Kavlico that caused the PCM to intermittently reset. The issue found here was that the DPFE sensor had a capacitor connected directly to the case of the sensor and the PCM inputs. The case of the sensor was grounded to the engine block.

The capacitor directly connected to the engine block and the PCM input is a low impedance path at high frequencies. The noise generated by the ignition system would couple a significant amount of energy into the PCM through the capacitor and cause it to reset. The present DPFE sensor design does not have this problem because the sensor is isolated from the engine block.

Possibly Mike Czekała, Jim McCoy, Jim Maurer or Keith Frazier might be able to explain what changes in the ignition system to cause the amount of noise generated by the ignition system to change significantly.

Additionally, the previous waveform that I sent was with coaxial cable. The signals were unshielded for approximately 5 inches which was just enough to connect the wires.

Thanks,

Robert

-----Original Message-----

From: Freeland, Mark (M.)
To: Rossi, Roberto (R.A.); Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.); Gates, Freeman (F.C.); 'Jahshan, John'; Janda, Jon (J.M.); Maurer, James (J.B.); O'Neill, Jim (J.D.); 'Park, Kyong'; Plante, Paul (P.G.); Poma, Amy (A.); McCoy, James (J.D.)
Sent: 6/27/02 6:22 PM
Subject: RE: Sample Waveform Showing Noise Coupled Into Test Wiring

Roberto,

Thank you for the cautionary information regarding being careful when looking at high frequency signals.

The wiring between the sensor and the DVM's is a screened cable, and between the DVM & the scope was a twisted pair. I am replacing the twisted pair with coax and adding a Pearson ring tonight. Any other suggestions to improve the instrumentation set up on the vehicle? If you had such a thing as an optical isolator available which would float

the scope relative to the dPFE signals that might also improve things. I do not have such a beast, do you have one that I might borrow? Can you offer an explanation as to why the Vout signal recorded at idle on page 5 might be so different to the Vout signal recorded at idle on page six (about one hour later). The scope settings, and Vout wiring been the same undisturbed.

Regards

Mark Freeland

>6-Sigma Black Belt
>Engine Research Department
>Ford Research Laboratory
>P.O. Box 2053
>MD 2629 - SRL - Room 1517
>Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

> -----Original Message-----

>From: Rossi, Roberto (R.A.)
>Sent: Thursday, June 27, 2002 5:29 PM
>To: Akins, Mary (M.); Alles, Sheran (S.A.); Awad, Mahmoud (M.I.);
>Gates, Freeman (F.C.); 'Jahshan, John'; Janda, Jon (J.M.); Maurer,
>James (J.B.); O'Neill, Jim (J.D.); 'Park, Kyong'; Plante, Paul (P.G.);
>Poma, Amy (A.); Freeland, Mark (M.); McCoy, James (J.D.)
>Subject: Sample Waveform Showing Noise Coupled Into Test Wiring

>
>As a follow-up from the meeting today, the following waveform is a
>recording from a vehicle being instrumented by Jim McCoy. The peak to
>peak voltage is approximately 40 Volts. The signal being monitored is
>the Scope Reference signal (not connected to anything except the scope
>ground). The object of the test was to demonstrate that when trying to
>capture high frequencies signals (>1 MHz) great care must be taken with
>respect to shielding oscilloscopes measurement wires.

> << OLE Object: Microsoft Photo Editor 3.0 Picture >>

>An additional comment is that if the sensor on Mark's vehicle was
>actually seeing the 13 Volts (10 MHz) noise on the sensor Vout the
>current flowing in the circuit should be Amperes because of the 220 nF
>capacitor that is on the Vout circuit of the sensor (impedance of Vout
>is very low at high frequencies $X=1/(2*PI*Frequency*Capacitance)$).

>Thanks,

>Robert Rossi
>Electrical/Electronic Systems Campaign Prevention Specialist
>North American Car Lifestyle Vehicles
>Phone/Fax: 84-51436

From: Rossi, Roberto (R.A.)
Sent: Friday, May 17, 2002 10:02 AM
To: Freeland, Mark (M.)
Subject: RE: Resistor current measurement

No, not at this time.

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

---Original Message---

From: Freeland, Mark (M.)
Sent: Thursday, May 16, 2002 6:55 PM
To: McCoy, James (J.D.); Potter, Timothy (T.J.); Rossi, Roberto (R.A.)
Cc: Maurer, James (J.B.); Plante, Paul (P.G.)
Subject: RE: Resistor current measurement

Jim,

We would make up a little box using a sensor housing with a fly lead coming out the other side to a sensor connector, then the signal wires would come out the side and be fed back through the door. This would give a minimal impact to the vehicle wiring (the reliability of one added connector in series, and the V drop across the 1 ohm. (This I would consider negligible as the V Transient Improved device has 10 ohms added at the same point).

So, if you have no other concerns I am going to have Tim proceed with my lease vehicle, and I hope others will follow and have their vehicles instrumented also. The more that do, the better the chance of finding the event.

Roberto, does anyone in your organization want to have their vehicle instrumented also?

Regards

Mark Freeland

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---Original Message---

From: McCoy, James (J.D.)
Sent: Thursday, May 16, 2002 1:49 PM
To: Freeland, Mark (M.); Potter, Timothy (T.J.)
Cc: Maurer, James (J.B.)
Subject: Resistor current measurement

Hi Mark. Got your message this morning about using a 1 ohm resistor in the VREF line to calculate the DPFE current. As long as you are looking for a latch/hold condition, the response of the voltmeter would be adequate and you're right that this would be an inexpensive and effective way to monitor for a fault without a scope. The only draw back would be the test is intrusive in that you would have to break into the VREF line to add the resistor.

1

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering

Hardware Control Interface Group

V-Engine Engineering

POEE - MD#69 - Rm. D142 - Cube DF186

Phone (313) 33-79690 / Fax (313) 39-04084

E-Mail: jmcco1@ford.com

From: Rossi, Roberto (R.A.)
Sent: Wednesday, May 15, 2002 10:05 AM
To: Plante, Paul (P.G.); Freeland, Mark (M.); Altes, Sheran (S.A.)
Subject: RE: Assignments Follow Up-Action Required-DPFE Stalls Meeting

This assignment has been open to PCSE for sometime. They are the best ones to answer it. Thanks.

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

-----Original Message-----

From: Plante, Paul (P.G.)
Sent: Tuesday, May 14, 2002 4:55 PM
To: Freeland, Mark (M.); Rossi, Roberto (R.A.); Altes, Sheran (S.A.)
Cc: Plante, Paul (P.G.)
Subject: FW: Assignments Follow Up-Action Required-DPFE Stalls Meeting

Robert, is the attached item under Mark's name something we can have EESE do?

<< File: stalls.xls >>

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, May 14, 2002 12:08 PM
To: Plante, Paul (P.G.)
Subject: RE: Assignments Follow Up-Action Required-DPFE Stalls Meeting

Paul,

I will not be able to complete this assignment on time. I am held up awaiting parts and information from Freeman. Shouldn't this should really be an EESE task?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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Tel.: (313) 594-7645

-----Original Message-----

From: Plante, Paul (P.G.)
Sent: Monday, May 13, 2002 11:02 AM
To: Patel, Anup (A.M.); McCoy, James (J.D.); Awad, Mahmoud (M.J.); Freeland, Mark (M.); Maurer, James (J.B.)
Cc: Plante, Paul (P.G.); Poma, Amy (A.); 'jshah@victson.com'; Gates, Freeman (F.C.); Perry, Brian (B.J.); O'Neill, Jim (J.D.)
Subject: Assignments Follow Up-Action Required-DPFE Stalls Meeting

Assignments and due dates from the 5/2/02 DPFE Stalls Working Group meeting are below. Please submit your answers to Amy Poma by due date. Answers will be summarized for review at 14D meeting Tuesday/Thursday:

Amy, please give answers to Jim Maurer and Paul Plante.

<< File: stalls.xls >>

Paul Plante
V Engine Campaign Prevention Specialist
POEE Building, Drop 20, Cube BG049, Pillar D5
Tele. 313-84-54138; Fax 39-02513
Text Pager. 734-296-1905
E Mail: pplante@ford.cm (CDS ID PPLANTE)

From: Rossi, Roberto (R.A.)
Sent: Tuesday, May 14, 2002 3:06 PM
To: Freeland, Mark (M.)
Cc: Ailes, Sheran (S.A.)
Subject: Vehicle

Mark,

Can we pick up the vehicle sometime on Wednesday?

Thanks,

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

From: Rossi, Roberto (R.A.)
Sent: Friday, May 10, 2002 12:31 PM
To: Freeland, Mark (M.)
Cc: Plants, Paul (P.G.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Subject: RE: Electrically, what would kill a CD player and a dPFE at the same time?

Radios are one of the biggest customer concern. There is an Affinity project working on Improving the quality. I do not think that there is any correlation of radio failures and DPFE failures.

Thanks,

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

---Original Message---

From: Freeland, Mark (M.)
Sent: Thursday, May 09, 2002 6:16 PM
To: Rossi, Roberto (R.A.)
Cc: Plants, Paul (P.G.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Subject: Electrically, what would kill a CD player and a dPFE at the same time?

Roberto,

I have seen many instances of trouble with radios at the same time as trouble with dPFE's.

Please check out the 4/8/2002 repairs on VIN # 1FMCU60B91UC36801.

The CD player and the dPFE are both replaced the same visit.

Any thoughts on what kills CD players?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
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From: Rossi, Roberto (R.A.)
Sent: Tuesday, May 07, 2002 8:05 AM
To: Freeland, Mark (M.); Plante, Paul (P.G.)
Subject: RE: 02S33B

Mark,

I worked on this recall. The issue was the body sealing was not consistently being applied behind the right rear tire on the Windstar. During wet road conditions the tire was spraying water into the vehicle. An unsealed connector is located directly behind the wheel and it has a power and ground circuit next to each other. The water and salt that would enter the connector could cause a carbon track to form between the pins and melt the connector.

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51438

— Original Message —

From: Freeland, Mark (M.)
Sent: Monday, May 06, 2002 5:33 PM
To: Plante, Paul (P.G.)
Cc: Rossi, Roberto (R.A.)
Subject: 02S33B

Paul,

Can you tell me where I can look up the details of this safety recall. It appears to be to do with the sealing of an electrical connector, and thus could be relevant to our issue with the dPFE.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
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Dearborn, MI 48121-2053 USA
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Tel.: (313) 594-7645

From: Ross, Roberto (R.A.)
Sent: Tuesday, April 30, 2002 10:15 AM
To: Mozurkewich, George (G.)
Cc: Freeland, Mark (M.)
Subject: FW: No Start Car at SRL

George,

One additional thought. If the concern happens again and the DPFE sensor is not the concern, try moving the gear selector into neutral and try cranking the engine. An open in the transmission range sensor (switch) can cause a no crank.

Thanks,

Robert Ross
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

---Original Message---

From: Freeland, Mark (M.)
Sent: Monday, April 29, 2002 11:25 AM
To: Gates, Freeman (F.C.); Maurer, James (J.B.); Plante, Paul (P.G.); Ross, Roberto (R.A.)
Cc: Mozurkewich, George (G.); Potter, Timothy (T.J.)
Subject: No Start Car at SRL

Freeman et al.

We have a new mystery.

Last October George Mozurkewich's wife had a dPFE failure on her 2.0L Zetec Focus, VIN 1FAFP38301W198354. We replaced the sensor with one of the prototype V Transient hardened sensors, Sn. SRL123.

Yesterday her car would not crank or start for her. After several attempts to start the car, George unplugged the dPFE sensor and the car started.

This morning Tim & I bench tested the sensor removed from the car. It appeared from the results to behave normally, and had normal current draw and impedances. We then deliberately latched the sensor on the bench. The maximum latched current we drew was 238 mA, which by itself is not sufficient to stop the PCM from functioning normally.

Using a Star tester we checked for PCM Codes, and only found a P1401 code. (This would be expected as George drove the car for several drive cycles with the dPFE sensor unplugged).

The above scenario would suggest one possibility is the following:

- 1) the dPFE had something to do with the car not starting, possibly by drawing up to 238 mA.
- 2) something else was drawing a high also from the Vref line such that the combined current was in excess of 690 mA, but less than 928 mA.
- 3) when George unplugged the dPFE sensor the total current draw from the Vref fell to below 690mA and so the car could be started.

Question:

EA02-027-G 17419

Is it possible to latch the Fuel Rail Pressure Sensor and/or the Fuel Tank Vapor Pressure Sensor such that either or both sensors draw a high current?

Can you suggest any alternate reasons why the car did not start, but then did after the dPFE was unplugged?

In the mean time, until we decide what else to look at, Tim Potter is going to install a new production V Transient Improved part in the car.

Regards

Mark Freeland

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Engine Research Department
Ford Research Laboratory
P.O. Box 2053
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email: mfreela1@ford.com
Tel.: (313) 594-7645

From: Rossi, Roberto (R.A.)
Sent: Friday, April 12, 2002 8:51 AM
To: Freeland, Mark (M.)
Cc: Alles, Sheran (S.A.)
Subject: RE: PCM Date Code from Focus Buy-Back

Mark,

This PCM was on the automatic. I do not have the VIN.

Sheran,

Can you get the VIN, the vehicle is in the Building 5 garage.

Thanks,

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, April 11, 2002 7:56 PM
To: Rossi, Roberto (R.A.)
Subject: RE: PCM Date Code from Focus Buy-Back

Roberto, is this the one from the stick shift or the automatic vehicle? or better still, what is the VIN number of the vehicle it came off.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Rossi, Roberto (R.A.)
Sent: Tuesday, April 09, 2002 3:45 PM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: PCM Date Code from Focus Buy-Back

Mark,

I do not know how to read the date codes from the module but here is what is printed on the label.

Part Number: 1S4F-12A850-ADF

**LMGB5FCMX8TT
0H16C**

**Robert Ross
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436**

From: Rossi, Roberto (R.A.)
Sent: Tuesday, April 09, 2002 3:45 PM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: PCM Data Code from Focus Buy-Back

Mark,

I do not know how to read the data codes from the module but here is what is printed on the label.

Part Number: 1S4F-12A650-ADF

LMGB5FCMX6TT
0H18C

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax 84-51436

From: Rossi, Roberto (R.A.)
Sent: Friday, March 22, 2002 12:33 PM
To: Freeland, Mark (M.)
Cc: Plante, Paul (P.G.); Maurer, James (J.B.); Awad, Mahmoud (M.I.)
Subject: RE: Special Service Message 14747 for short in connector to PCM

Here is the text of SSM 14747.

CSQI702 CQIS Technical Service Detail 03/22/02 12:30:58

==>

Next/Previous Article (N/P): _ Article #: SSM 14747 Date: 03/14/2001

Symptom:

Year Vt Fm VI Mdl Trans Engine Callb Axle

Criteria:

FOLLOW NORM DIAG FOR (FPDM), CONNS, HARNESS, ETC...
SOME 2000/2001 FOCUS MAY EXHIBIT A CHECK ENGINE LIGHT ON WITH DIAGNOSTIC TROUBLE CODE P1233, P1235, P1237 (FUEL PUMP DRIVER MODULE). THIS MAY ALSO BE ACCOMPANIED BY A LOSS/LACK OF POWER OR CRANK NO START WITH A LOSS OF FUEL PRESSURE. THIS MAY BE CAUSED BY THE FPDM CONNECTIONS, CIRCUIT. FIRST FOLLOW NORMAL PC/ED DIAGNOSIS. SPECIFIC FPDM AREAS TO CHECK ARE; AN IMPROPERLY SEATED CONNECTOR, A TIGHT OR CHAFFED HARNESS OR GROUND (G54) BEING LOOSE. CHECK THE BATTERY JUNCTION BOX (BJB) FOR A LOOSE CONNECTION OR PIN PUSH OUTS. VERIFY THAT THE CONNECTIONS AT THE TRANSMISSION HOUSING (C95/C96) ARE PROPERLY SEATED AND THE HARNESS IS NOT CHAFFED AGAINST THE TRANSMISSION. ALSO CHECK FOR A POSSIBLE PINCHED WIRING HARNESS UNDER THE RIGHT FRONT DOOR SCUFF PLATE AREA.

Robert Rossi
Electrical/Electronic Systems Campaign Prevention Specialist
North American Car Lifestyle Vehicles
Phone/Fax: 84-51436

—Original Message—

From: Freeland, Mark (M.)
Sent: Thursday, March 21, 2002 6:05 PM
To: Rossi, Roberto (R.A.)
Cc: Plante, Paul (P.G.); Maurer, James (J.B.); Awad, Mahmoud (M.I.)
Subject: Special Service Message 14747 for short in connector to PCM

Roberto,

Can you please find out the details of **Special Service Letter 14747 for short in connector to PCM**. (see attached .pdf).

I found it referred to in a GQRS report for a 2.0L Zetec Focus VIN # 1FAHP38391W107129, Build date 9/9/2000, which has been in several times for no start, died while driving, and other concerns. This vehicle had a dPFE replaced on 1/25/2002.

Thanks

Mark Freeland

<< File: 1FAHP38391W107129.pdf >>

From: Rundus, Steven (S.T.)
Sent: Friday, November 01, 2002 3:16 PM
To: Eggers, Pamela (P.J.)
Co: Freeland, Mark (M.); Rundus, Steven (S.T.)
Subject: Information regarding Delta PFE Sensor BB project

Pam,

Mark Freeland, a Black Belt within FRL, is currently working on a delta PFE sensor project. Mark's project is zeroed in on the 2.0L Zetec Focus due to it's extremely high warranty cost, but the information from his project can apply to other vehicle lines such as your Explorer.

Mark has a significant amount of information on delta PFE issues/resolutions and he'd welcome the opportunity to discuss it with you personally. Mark and I also discussed the advantages and disadvantages of future Black Belt projects based on his work.

I'd recommend giving him a call at (313)-59-47645. It'll definitely be worth your time.

Steve Rundus
Ford Motor Company
Six Sigma Black Belt Candidate
Powertrain Research & Development - Ford Research Laboratory
E-mail : erundus@ford.com
E-mail to pager : 3138515589@alphapage.airtouch.com
Phone : (313)-323-6535 Fax : (313)-322-9711 Pager : (313)-851-5589

From: Salhieh, Loay (L.)
Sent: Thursday, March 07, 2002 8:42 AM
To: Freeland, Mark (M.)
Subject: Functional Characteristics

Hi,
There are some records that have no functional characteristics: I called it zero. Should I leave it as that or change it to something else.
Advice,

Best Regards,
Loay Salhieh
Ph.317-4618

Subject: Discussion of Potential High Mileage Durability/Reliability Project
Location: 1529

Start: Fri 11/22/2002 1:00 PM
End: Fri 11/22/2002 2:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Saloka, George (G.S.); Bauer, David (D.R.); Frøland, Mark (M.); SRL Conf Room 1529 (10)

I had a short meeting with Mark today and it appears that there is significant work that we could accomplish as a project for the High Mileage Durability/Reliability group. Mark will give us a short overview of the data that he has collected that strongly supports the theory that a significant portion of the electrical problems on present vehicles is related to spark plugs that do not meet Ford specifications.

From: Saloka, George (G.S.)
Sent: Wednesday, November 13, 2002 9:29 AM
To: Freeland, Mark (M.)
Cc: Adams, Jim (J.A.); Bauer, David (D.R.)
Subject: Spark Plug Work





The work that you are doing in the area of spark plugs generated some ideas on our part.

Our small group, Dave Bauer (Group Leader), Jim Adams, and myself, have been given the assignment by Jeff Helms to come up with a "High Mileage Durability/ Reliability" project. Presently, we are ending a project and we will be looking for more work soon.

Of course, our strengths are laboratory experimentation. My question to you is: Do you see the possibility of any laboratory work that we could do to support yourself and/or the spark plug group at POEE. I feel that we could do actual physical testing as well as provide knowledgeable materials consultation. From your description, the drop in spark plug resistivity is a significant company-wide concern.

I stopped by your office this morning, but, you were not yet in. Give me a call if you see potential for this work.

George S. Saloka
Ford Motor Company SRL
Room 1625 MD 3182
2101 Village Road Receiving R
Dearborn, MI 48124

 Internal: x55699
 External: +1 (313) 84-55699
 Fax: +1 (313) 84-50100
 E-mail: gsaloka@ford.com

From: Saloka, George (G.S.)
Sent: Tuesday, November 12, 2002 8:41 AM
To: Freeland, Mark (M.)
Subject: Spark Plugs

Actually, I personally do not need the data. This was a request passed along from AFT and then to TH!
NK

I will have Brian Rutkowski, from AFT, call you directly. It appears that there is much more work going on in the company in the area of spark plugs than he is aware.

Thanks for your initial reply.

George S. Saloka
Ford Motor Company SRL
Room 1625 MD 3182
2101 Village Road Receiving R
Dearborn, MI 48124

☎ Internal: x55699
External: +1 (313) 84-55699
☎ Fax: +1 (313) 84-50100
☎ E-mail: gsaloka@ford.com

Subject: Updated: U204 Phantom Staff Meeting
Location: TEE Conf. Rm. 2

Start: Thu 3/21/2002 2:00 PM
End: Thu 3/21/2002 3:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Thursday from 2:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Sanders, Muriel (M.S.); Altcornian, Don (D.J.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Cary Powell; Chick, John (J.); Chih, Ming-Niu (M.N.); Chln, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Dan Rothweller; De Pena, Juan (J.E.); Diez, Timothy (T.P.); Duvall, Allen (A.W.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Goodwin, William (W.R.); Grewal, Bill (B.S.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Hoshino, Jun (J.); Ichikawa, Jyunichiro (J.); Jensen, Ted (T.E.); John McDonald; Jones, Andy; Jordan, Donald (D.E.); Kanai, Shinji (S.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); Le, Dzung (D.H.); Lintfaco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Mandzduk, Roger (R.S.); Marck, Edmond (E.C.); Matesa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); McGee, Brett (B.L.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tom; Morishima, Shigeki (S.); Naveed Khan; Nematollahi, Sorya (S.); Nikolai, Barnie; Noteboom, Jim (J.E.); Orzman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Alden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiraishi, Masaru (M.); Stifgenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Takasawa, Keith (K.D.); Takubo, Hiroichi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (L.H.W.); Yeung, Lem (.)

I extended the meeting notice a couple of more weeks. All other information remains the same.

Dial in: 1-877-870-3529 or Fordnet: 9-1-954-1144
International Participants # 1 (630) 693-1704
Passcode: 7673538#

From: Sanders, Muriel (M.S.)
Sent: Friday, May 03, 2002 1:59 PM
To: Freeland, Mark (M.)
Subject: DPFE Question

Hi Mark,

When the vehicle stalls because of the DPFE can the driver just re-crank the engine or does he/she need to key off first? This came up in yesterday's stall meeting and I would like to clarify it in the minutes.

Thanks,

> Muriel Sanders
> U204 3.0L Calibration
> Ford Motor Company
> Phone: 313-32-27307
> Fax: 313-32-31786
> E-mail: msander6@ford.com
>

Subject: Updated: U204 Phantom Stall Meeting
Location: TEE Conf. Rm. 2

Start: Thu 3/21/2002 2:00 PM
End: Thu 3/21/2002 3:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Thursday from 2:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Sanders, Muriel (M.S.); Altoonian, Don (D.J.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Cary Powell; Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Dan Rothweiler; De Pena, Juan (J.E.); Diez, Timothy (T.P.); Duval, Allen (A.W.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Goodwin, William (W.R.); Grewal, Bill (B.S.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Hoshino, Jun (J.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); John McDonald; Jones, Andy; Jordan, Donald (D.E.); Kanai, Shinji (S.); King, Robert (R.F.); Kosko, Jeff (J.R.); Kwon, Soon (S.K.); La, Dzung (D.H.); Lintiacco, Steven (S.); Linds, Peter (P.A.); Liu, Jane (J.); Mandziuk, Roger (R.S.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); McGee, Brett (B.L.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tom; Morishima, Shigeki (S.); Naveed Khan; Nematollahi, Sonya (S.); Nikolai, Bernie; Noteboom, Jim (J.E.); Ortman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Alden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiraishi, Masaru (M.); Stiglenbauer, Jeffrey (J.R.); Suarez, Rhea (R.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (LHW.); Yeung, Lam (.)

I extended the meeting notice a couple of more weeks. All other information remains the same.

Dial in: 1-877-870-3529 or Fordnet: 9-1-954-1144
International Participants # 1 (630) 693-1704
Passcode: 7673538#

From: Sanders, Muriel (M.S.)
Sent: Friday, May 03, 2002 1:30 PM
To: Altoonian, Don (D.J.); Badgley, Joel (J.K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Cary Powell; Chick, John (J.); Chin, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dabo, Bob (R.J.); Dan Rothweiler; De Pena, Juan (J.E.); Diaz, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Glee, Stuart (S.); Gokhale, Renuka (R.V.); Grimas, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunichiro (J.); Jensen, Ted (T.E.); John McDonald; Jones, Andy; Jordan, Donald (D.E.); Kanal, Shinji (S.); King, Robert (R.F.); Klostermann, Eric (E.); Koeko, Jeff (J.R.); Kwon, Soon (S.K.); Limtiaco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Marck, Edmond (E.C.); Melesa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tom; Morishima, Shigeaki (S.); Naveed Khan; Nematollahi, Sonya (S.); Nikolai, Bernie; Noteboom, Jim (J.E.); Ortman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Alden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiraiishi, Masaru (M.); Silgenbauer, Jeffrey (J.R.); Suarez, Rhee (R.); Sullivan, Jamie (J.P.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Vecchio, Anne Marie (A.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (LHW.); Williamson, David (D.E.); Yeung, Lem (.)
Subject: New Dial-in No. for Stalls Meeting

The dial-in information has changed for the weekly stalls meeting. Please note the new information below. This will be effective next Thursday (May 9, 2002).

New Dial-In Numbers & Passcode

Dial in: 1-877-870-3529 or Fordnet: 9-1-954-1144

International Participants # 1 (630) 693-1704

Passcode: 7673538#

Muriel Sanders

U204 3.0L Calibration

Ford Motor Company

Phone: 313-32-27307

Fax: 313-32-31786

E-mail: msander6@ford.com

Subject: Updated: U204 Phantom Stall Meeting
Location: TEE Conf. Rm. 2

Start: Thu 3/21/2002 2:00 PM
End: Thu 3/21/2002 3:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Thursday from 2:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Sanders, Muriel (M.S.); Altoonian, Don (D.J.); Bauer, Scott (S.C.); Bhojwani, Kamel (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Cary Powell; Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Dan Rothweiler; De Pena, Juan (J.E.); Dlez, Timothy (T.P.); Duvall, Allen (A.W.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Goodwin, William (W.R.); Grewal, Bill (B.S.); Grimes, Jeff (J.R.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Hoshino, Jun (J.); Ichikawa, Jiyunkhiro (J.); Jensen, Ted (T.E.); John McDonald; Jones, Andy; Jordan, Donald (D.E.); Kanai, Shinji (S.); King, Robert (R.F.); Koeko, Jeff (J.R.); Kwon, Soon (S.K.); La, Dzung (D.H.); Lintaco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Mandziuk, Roger (R.S.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzala, Gary (G.R.); McGee, Brett (B.L.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tom; Morishima, Shigeki (S.); Naveed Khan; Nematollahi, Sonya (S.); Nikolai, Bernie; Notaboom, Jim (J.E.); Ortman, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Alden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shirahshi, Masaru (M.); Stigenbauer, Jeffrey (J.R.); Suarez, Rhoe (R.); Takasawa, Keith (K.D.); Takubo, Hirochi (H.); Veenstra, Tim (T.W.); Wakenell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (LHW.); Yeung, Lem (.)

I extended the meeting notice a couple of more weeks. All other information remains the same.

Dial in: 1-877-870-3529 or Fordnet: 9-1-954-1144
International Participants # 1 (630) 693-1704
Passcode: 7673538#

From: Sanders, Muriel (M.S.)
Sent: Monday, March 18, 2002 10:14 AM
To: Altoonlan, Don (D.J.); Amenda, Harry (H.F.); Badgley, Joel (J.K.); Bauer, Scott (S.C.); Bhojwani, Kamal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Cary Powell; Chfck, John (J.); Chih, Ming-Niu (M.N.); Chih, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Dan Rothweiler; De Pena, Juan (J.E.); Diaz, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Gies, Stuart (S.); Gokhale, Renuka (R.V.); Hansen, George (G.C.); Harr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunchiro (J.); Jensen, Ted (T.E.); John McDonald; Jones, Andy; Jordan, Donald (D.E.); Kanai, Shirji (S.); King, Robert (R.F.); Klostermann, Eric (E.); Koeko, Jeff (J.R.); Kwon, Soon (S.K.); Lintiacco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Luehrsen, Eric (E.A.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tom; Morishima, Shigeki (S.); Naveed Khan; Nematollahi, Sonya (S.); Nikolai, Bamie; Nolaboorn, Jim (J.E.); Ortmann, James (J.W.); Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Alden (A.P.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiralshi, Masaru (M.); Silgenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Sullivan, Jamie (J.P.); Takasawa, Keith (K.D.); Takubo, Hiroichi (H.); Vecchio, Anne Marie (A.); Wakanell, Ray (R.A.); Wettach, Bill (B.); Williams, Les (LHW.); Williamson, David (D.E.); Yeung, Lam (.)
Subject: U204 Phantom Stall Meeting 3/21/02

Here is the updated meeting information for this week. A meeting notice will follow.

New dial-in information.

Dial in: 1-877-870-3431 or Fordnet: 9-1-954-1143
International Participants # 1 (630) 693-1703
Passcode: 7865386#

For 3/21/2002 Only:

Location is TEE Conference Rm 1

Meeting time remains the same as Thursdays, 2-3pm.

Have a good day.

Muriel Sanders

U204 3.0L Calibration
Ford Motor Company
Phone: 313-32-27307
Fax: 313-32-31786
E-mail: msander6@ford.com

From: Sanders, Muriel (M.S.)
Sent: Friday, March 15, 2002 9:32 AM
To: Freeland, Mark (M.)
Subject: FW: Part Purge Request - DPFE Sensor (P/N AJ09-18-211B / Ford p/n Y F1Z-9J460-AC)

Mark,

Can you help with the information that Steve is requesting below.

Thanks,

> Muriel Sanders
> U204 3.0L Calibration
> Ford Motor Company
> Phone: 313-32-27307
> Fax: 313-32-31786
> E-mail: msander6@ford.com
>

-----Original Message-----

From: Steven Limtiaco [mailto:SLimtiac@mazdausa.com]
Sent: Thursday, March 14, 2002 7:08 PM
To: 'msander6@ford.com'
Cc: 'lwilli73@ford.com'; 'rdalbo@ford.com'
Subject: Part Purge Request - DPFE Sensor (P/N AJ09-18-211B / Ford p/n Y F1Z-9J460-AC)

Muriel,

Do you have any supporting documents (an 8D or equivalent) explaining the Jan 7th, 2002 countermeasures and the white dot indicator? I want to request a parts purge of old stock from the Mazda PDCs and will need this information for justification.

Anything you can provide will be helpful. Thanks,

Steve Limtiaco
Mazda North American Operations
Tribute Product Support Engineer
949-442-6514 (phone)
949-442-6599 (fax)
e-mail: slimtiac@mazdausa.com

From: schen16 [schen16@ford.com]
Sent: Tuesday, October 08, 2002 4:37 AM
To: Verner, Carol (C.J.); Freeland, Mark (M.)
Subject: Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Carol:

We did not receive the PCM so far, can you advise when we can have your mail for this PCM?

Regards,

----- Original Message -----

From: "Verner, Carol (C.J.)" <cverner@ford.com>
To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Freeland, Mark (M.)" <mfreelal@ford.com>
Sent: Monday, May 06, 2002 7:40 PM
Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

> Smith Chen,

>

> Thank you very much for the information on the PCM.

>

> Regards,

> Carol

>

> -----Original Message-----

> **From:** schen16 [mailto:schen16@ford.com]
> **Sent:** Monday, May 06, 2002 2:38 AM
> **To:** Verner, Carol (C.J.)
> **Cc:** Jao, Jack (J.); Chang, Chia Kai (C.); Kanai, Shinji (S.); Maurer, James (J.B.)
> **Subject:** Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

>

>

> Carol:

>

> I have asked the MC service people and confirmed the PCM of this vehicle,

> the PCM which I sent to Mark is the original one, no any record for replacement.

>

> Regards,

>

> S. N. Chen

> ----- Original Message -----

> **From:** "Verner, Carol (C.J.)" <cverner@ford.com>
> **To:** "Chen, Smith S N (S.)" <schen16@ford.com>; "Verner, Carol (C.J.)" <cverner@ford.com>
> **Cc:** "Jao, Jack (J.)" <jjao@ford.com>; "Chang, Chia Kai (C.)" <cchang9@ford.com>; "Kanai, Shinji (S.)" <kanai.sh@sv.mazda.co.jp>; "Maurer, James (J.B.)" <jmaurer@ford.com>
> **Sent:** Tuesday, April 23, 2002 7:20 PM
> **Subject:** RE: U204 Stall Meeting (Field issue update: Engine stall -> No

> restart (DPFE shortage))
>
>
>> Good Day S. N. Chen,
>>
>> This information should be helpful for me to order a PCM. Can you or
>> someone at Mazda let me know if the PCM you have is the original one or
>> is it a replacement. The part number YLBF-12A650-TG suggests that it
> is
>> a replacement. Please confirm.
>>
>> Regards
>> Carol
>>
>> -----Original Message-----
>> From: schen16 [mailto:schen16@ford.com]
>> Sent: Sunday, April 21, 2002 11:29 PM
>> To: Verner, Carol (C.J.)
>> Cc: Jack Jao; Chang C.K; Kanai, Shinji (S.); Maurer, James (J.B.)
>> Subject: Re: U204 Stall Meeting (Field issue update: Engine stall ->
> No
>> restart (DPFE shortage))
>>
>>
>> Carol:
>>
>> It's nice to have your assistance, this vehicle is Mazda Tribute 2.0L
>> with
>> automatic transmission, I have got this PCM and attached the label of
>> this
>> PCM for your reference. I hope this can help you to order the PCM.
>>
>> Regards,
>>
>> S. N. Chen
>>
>>
>> ----- Original Message -----
>> From: "Verner, Carol (C.J.)" <cverner@ford.com>
>> To: "Chen, Smith S N (S.)" <schen16@ford.com>
>> Cc: "Maurer, James (J.B.)" <jmaurer@ford.com>; "Kanai, Shinji (S.)"
>> <kanai.sh@sv.mazda.co.jp>
>> Sent: Saturday, April 20, 2002 3:01 AM
>> Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> No
>> restart (DPFE shortage))
>>
>>
>>> Good Morning Mr. Chen,
>>>
>>> I am a member of a Team working on the dpfe sensor and stall issues
>>> regarding the Tribute/Escapes. Mark Freeland is a member of the
> team
>>> as
>>> well. I have the assignment to order a PCM to replace the one Mark
> has
>>> asked you to send to him. Before I can order one I need some more
>>> information about the vehicle. Attached is a memo from Kanai-san in
>>> Kansas City which list the VIN and vehicle build date.
>>>

> > > I am attaching an excel spreadsheet from the Design Engineer at
> > Visteon
> > > with the part numbers for the all PCMs (EEC) across the world. You
> > will
> > > see that there are different part numbers depending on vehicle
> > content.
> > > I would like you help to make sure I have enough information to
> > order
> > > the correct PCM from Visteon. If I use the part number you sent
> > Mark
> > > Freeland (YL8Z-12A650-TG) it will take another 2 - 3 weeks to get
> > the
> > > part. This is a Service part number and unfortunately they do not
> > stock
> > > the part. They would have to order it from Visteon as well. This
> > is
> > > why I have decided to try and order from Visteon myself to save
> > time.
> > >
> > > Based on all the information I have the vehicle is a Model Year 2002
> > > Mazda Tribute with a 2.0L Zetec engine with VIN provided by
> > Kanai-san.
> > > I
> > > need to know if I should buy PCM for a manual transmission (MTX,
> > Part
> > > Number YL8F-12A650-PD) or automatic transmission (ATX, Part Number
> > > YL8A-12A650-AA) for the Taiwan market?
> > >
> > > If you have any questions about the information I am asking for,
> > please
> > > send back a note.
> > >
> > >
> > > Thank you
> > > Carol Verner
> > > FMEI Component Engineer
> > >
> > > -----Original Message-----
> > > From: Freeland, Mark (M.)
> > > Sent: Friday, April 19, 2002 12:36 PM
> > > To: Verner, Carol (C.J.)
> > > Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> > No
> > > restart (DPFE shortage))
> > >
> > >
> > >
> > > Regards
> > >
> > > Mark Freeland
> > >
> > > > 6-Sigma Black Belt
> > > > Engine Research Department
> > > > Ford Research Laboratory
> > > > P.O. Box 2053
> > > > MD 2629 - SRL - Room 1517
> > > > Dearborn, MI 48121-2053 USA
> > > > email: mfreela1@ford.com
> > > > Tel.: (313) 594-7645

> > >
> > >
> > > -----Original Message-----
> > > From: Shinji Kanai [mailto:kanai.sh@sv.mazda.co.jp]
> > > Sent: Wednesday, April 10, 2002 6:59 PM
> > > To: 'Sanders, Muriel (M.S.)'; 'Altoonian, Don (D.J.)'; 'Badgley,
> Joel
> > > (J.K.)'; 'Bauer, Scott (S.C.)'; 'Bhojwani, Kamal (K.)'; 'Blackburn,
> > > Thomas (T.J.)'; 'Bogema, John (P.)'; 'Cary Powell'; 'Chick, John
> > > (J.)';
> > > 'Chih, Ming-Niu (M.N.)'; 'Chin, Darrel (D.)'; 'Corbett, Sandra
> > > (S.M.)';
> > > 'Dalbo, Bob (R.J.)'; 'Dan Rothweiler'; 'De Pena, Juan (J.E.)';
> > > 'Diez,
> > > Timothy (T.P.)'; 'Fascetti, Bob (R.J.)'; 'Fournelle, Gilbert (G.)';
> > > 'Freeland, Mark (M.)'; 'Giles, Stuart (S.)'; 'Gokhale, Renuka
> > > (R.V.)';
> > > 'Grimes, Jeff (J.R.)'; 'Hansen, George (G.C.)'; 'Herr, George
> > > (G.J.)';
> > > 'Hofman, Michael (M.V.)'; 'Holmes, Jeffrey (J.R.)'; 'Ichikawa,
> > > Jiyunichiro (J.)'; 'Jensen, Ted (T.E.)'; 'John McDonald'; 'Jones,
> > > Andy';
> > > 'Jordan, Donald (D.E.)'; 'Kanai, Shinji (S.)'; 'King, Robert
> > > (R.F.)';
> > > 'Klostermann, Eric (E.)'; 'Kosko, Jeff (J.R.)'; 'Kwon, Soon (S.K.)';
> > > 'Limtiaco, Steven (S.)'; 'Linde, Peter (P.A.)'; 'Liu, Jane (J.)';
> > > 'Luehrsen, Eric (E.A.)'; 'Marck, Edmond (E.C.)'; 'Matesa, John
> > > (J.)';
> > > 'Maurer, James (J.B.)'; 'Mazzella, Gary (G.R.)'; 'Mooney, Larry
> > > (L.)';
> > > 'Moorhouse, Scott (S.R.)'; 'Morgan, Tom'; 'Morishima, Shigeki (S.)';
> > > 'Naveed Khan'; 'Nematollahi, Sonya (S.)'; 'Nikolai, Bernie';
> > > 'Noteboom,
> > > Jim (J.E.)'; 'Ortman, James (J.W.)'; 'Powers, Ken (K.W.)'; 'Price,
> > > Martin (M.)'; 'Raguepau, Alden (A.P.)'; 'Shah, Kiran (K.C.)';
> > > 'Shiraishi, Masaru (M.)'; 'Stilgenbauer, Jeffrey (J.R.)'; 'Suarez,
> > > Rhae
> > > (R.)'; 'Sullivan, Jamie (J.P.)'; 'Takasawa, Keith (K.D.)'; 'Takubo,
> > > Hiroichi (H.)'; 'Vecchio, Anne Marie (A.)'; 'Wakenell, Ray (R.A.)';
> > > 'Wettach, Bill (B.)'; 'Williams, Les (LHW.)'; 'Williamson, David
> > > (D.E.)'; 'Yeung, Lem (.)'
> > > Subject: U204 Stall Meeting (Field issue update: Engine stall -> No
> > > restart (DPFE shortage))
> > >
> > >
> > > I update Taiwan case as follows.
> > >
> > > VIN:5P2CU08B61KM71661
> > > Prod. July,2001 at Hofu. Sale: Sep. 24,2001.
> > >
> > > Stall occurred on Mar. 01, 2002, 6997km.
> > > Before the case, the car had no problem (back to the dealer for
> > > 1000
> > > \$
> > > 5000KM regular maintainence only.)
> > > When the car picked back to the dealer:
> > > 1. can't start again.
> > > 2. can't communicate with WDS.
> > > 3. replacing another PCM (from anothe same model
> > > car),can't

> > > communicate with WDS.
> > > 4. with original PCM, communicate with WDS by using "
> > Manual
> > > Entry" function of WDS.
> > > 5. WDS showed DTC : B1681/B1401/U1262
> > > 6. diagnose the DTCs with " Probe test" function of WDS,
> > > everything seemed OK.
> > > 7. because the connector of DPFE was disconnected in
> "Probe
> > > test", the technician tried to
> > > start again after the test, the car started, then
> found
> > > the DPFE was disconnected.
> > > 8. try several times, all the same, when the connector
> was
> > > connected, can't start. when disconnecting,
> > > can start again.
> > > 9. change another new DPFE, the problem was disappeared.
> > >
> > > Shinji Kanai
> > > -----Original Message-----
> > > From:
> > > Sent: Monday, April 08, 2002 9:16 PM
> > > Subject: U204 Stall Meeting (Field issue update: Engine stall -> No
> > > restart (DPFE shortage))
> > >
> > >
> > > I update concern which I reported Stall meeting in last week. Failed
> > > DPFE sensors were scrapped at dealers in all cases.
> > >
> > > CASE 1 (Japan)
> > > VIN: EPEW-101286, Hofu build: 2000/12/13, Retail 2000/12/26
> > > (1) First repair 2001/4/9 4,893km
> > > DTC P0401 and P1408 illuminated. DPFE output Voltage was 0.122V
> > > (standard 0.95 - 1.05V).
> > > Replace DPFE sensor with new one. Problem was solved.
> > > (2) Second repair 2001/8/20 11,084km
> > > Engine stall during normal operating temp. Starter was clanking but
> > > engine did not start.
> > > WDS tester could not communicate with PCM. BUS(-) terminal voltage
> > > showed 1.9V (standard 4.5V) causing NO communication.
> > > Vref was 2.0V (standard 4.0 - 6.0V). When DPFE sensor connector was
> > > disconnected, Vref increased to 5V.
> > > Same time Click sound was observed from Fuel pump relay and fuel
> > > pressure was increased to normal range.
> > > Also BUS(-) terminal voltage was returned 4.5V at same time, and WDS
> > > can
> > > communicate with PCM.
> > > Replace DPFE sensor with new one. Problem was solved.
> > > <<<DPFE sensor lot number is unknown. According to second repair
> > > date,
> > > it might be pre CM part.>>>
> > >
> > > CASE 2 (Taiwan)
> > > We are contacting Taiwan continuously.
> > >
> > > CASE 3 (Australia)
> > > Attachment is the information from Australia (VIN:
> > > JMCYU06BY11100053,
> > > Hofu build 2001/01/09).

> > > In addition to this report;
> > > (1) Vref was 2.1 V (standard 4.0 - 6.0V) during NO start condition.
> > > (2) Vref returned standard value and engine started immediately
> > > after
> > > disconnect DPFE connector.
> > > (3) In this DPFE internal shortage case, WDS cannot communicate to
> > > PCM.
> > > Replace DPFE sensor with new one. Problem was solved.
> > > <<<DPFE sensor lot number is unknown. According to build date, it
> > > might
> > > be pre CM part.>>>
> > >
> > >
> > > Shinji Kanai
> > > Manager, Tribute Plant QA
> > > Mazda North American Operations
> > >
> > > Ford Kansas City Assembly Plant
> > > Plant Vehicle Team
> > > 8121 N.E. Hwy. 69, Claycomo, MO 64119 USA
> > > Tel: 816-459-1623/ Fax: -1726/ e-mail: kanai.sh@ev.mazda.co.jp
> > > Local Text Pager: 9135677156@alphapage.airtouch.com
> > >
> > >

From: schen16 [schen16@ford.com]
Sent: Thursday, April 11, 2002 3:10 AM
To: Freeland, Mark (M.); Chang C.K
Subject: Fw: DPFE EGR Part Concern



Fw: U204 DPFE
cause the engin... Mark:

Please be advised that the part was ready and will sent through "DHL"
shipment, the shipping no is "2842010453" .

Regards,

— Original Message —

From: "schen16" <schen16@ford.com>
To: "Freeland, Mark (M.)" <mfreela1@ford.com>
Cc: "Gates, Freeman (F.C.)" <fgates@ford.com>; "Jao, Jack (J.)"
<jjao@ford.com>; "Kwon, Soon (S.K.)" <skwon@ford.com>; "Maurer, James
(J.B.)" <jmaurer@ford.com>
Sent: Thursday, April 11, 2002 3:03 PM
Subject: Re: DPFE EGR Part Concern

> Mark:

> Attached file please find the information that responded from our ACSG
> people, this vehicle was "Tribute 2.0L" imported car, however, I can't get
> this car so far but the PCM parts No. shall be "YL8Z-12A650-TG".
> The Lot # of this EGR part is "1F19B", Mr. C.K.Chang will mail this part
> to
> you ASAP .

>

> Regards,

> — Original Message —

> **From:** "Freeland, Mark (M.)" <mfreela1@ford.com>
> **To:** "Chen, Smith S N (S.)" <schen16@ford.com>; "Kwon, Soon (S.K.)"
> <skwon@ford.com>; "Maurer, James (J.B.)" <jmaurer@ford.com>; "Freeland,
Mark
> (M.)" <mfreela1@ford.com>

> Cc: "Huang, M (M.T.)" <mhuang3@ford.com>; "Freeland, Mark (M.)"
> <mfreela1@ford.com>; "Gates, Freeman (F.C.)" <fgates@ford.com>; "Jao, Jack
> (J.)" <jjao@ford.com>

> Sent: Tuesday, April 09, 2002 9:57 PM

> Subject: RE: DPFE EGR Part Concern

>

>

>> Smith,

>>

>> This is great news. Can you also tell me if the original dPFE sensor is

>> still with the vehicle, if so it would be very helpful to get that back

>> also. We can provide a replacement for the dPFE sensor.

>> I will need additional information on the vehicle to obtain a

>> replacement PCM.

>> Can you please provide me with the VIN number, Build date, Specific

>> Vehicle description (i.e. 2.0L Zetec Focus, 2001 MY etc.) and if

>> possible also the part number and any other available information from

>> the label on the current PCM.

>>

>> Also, can you please provide me with the complete service history on the

>> vehicle.

>>

>> My shipping address is:

>> SRL Room 1517/MD 2629

>> 2101 Village Road

>> Dearborn, MI 48121-2053

>>

>> Jim,

>>

>> Do you have any idea if we can obtain a replacement PCM for an overseas

>> application locally? Any thoughts, please let me know.

>>

>>

>> Regards

>>

>> Mark Freeland

>>

> > > 6-Sigma Black Belt
> > > Engine Research Department
> > > Ford Research Laboratory
> > > P.O. Box 2053
> > > MD 2629 - SRL - Room 1517
> > > Dearborn, MI 48121-2053 USA
> > email: mfreela1@ford.com
> > Tel.: (313) 594-7645

> >

> >

> > ---Original Message---

> > From: schen18 [mailto:schen18@ford.com]
> > Sent: Monday, April 08, 2002 10:51 PM
> > To: Kwon, Soon (S.K.); Maurer, James (J.B.); Freeland, Mark (M.)
> > Cc: Huang M. T.; Freeland, Mark (M.); Gates, Freeman (F.C.); Jao, Jack
> > (J.)
> > Subject: Re: DPFE EGR Part Concern

> >

> >

> > Mark:

> > It is possible to get the PCM from the concern vehicle, due to our
> > company
> > decided to buy back this vehicle to solve the customer's big concern,
> > however, we will send PCM to you if you can provide a new one for
> > replacement. Please also show your detailed address, I can mail to you
> > when
> > it is available.

> >

> > Regards,

> >

> > --- Original Message ---

> > From: "Freeland, Mark (M.)" <mfreela1@ford.com>
> > To: "Chen, Smith S N (S.)" <schen18@ford.com>; "Maurer, James (J.B.)"
> > <jmaurer@ford.com>; "Kwon, Soon (S.K.)" <skwon@ford.com>
> > Cc: "Jao, Jack (J.)" <jjao@ford.com>; "Gates, Freeman (F.C.)"
> > <fgates@ford.com>; "Freeland, Mark (M.)" <mfreela1@ford.com>
> > Sent: Monday, April 08, 2002 9:42 PM

> > Subject: RE: DPFE EGR Part Concern
> >
> >
> > > Smith,
> > > Would It be possible to obtain the PCM from the subject vehicle as
> > there
> > > is a possibility that a defect in the PCM was the trigger which caused
> > > the dPFE sensor to go into the high current mode and become shorted?

> > >
> > > Regards

> > >
> > > Mark Freeland

> > >
> > > > 6-Sigma Black Belt
> > > > Engine Research Department
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> > > > MD 2629 - SRL - Room 1517
> > > > Dearborn, MI 48121-2053 USA
> > > email: mfreela1@ford.com
> > > Tel.: (313) 594-7645

> > >
> > >

> > > —Original Message—

> > > From: schen16 [mailto:schen16@ford.com]
> > > Sent: Wednesday, April 03, 2002 12:11 AM
> > > To: Maurer, James (J.B.); Kwon, Soon (S.K.)
> > > Cc: Jack Jao; Gates, Freeman (F.C.); Freeland, Mark (M.)
> > > Subject: Re: DPFE EGR Part Concern

> > >
> > >

> > > Jim:
> > > Please find the attached file for the measuring data of the defeat
> > DPFE
> > > EGR
> > > part, this case was happened when the customer was driving in city
> > with

> > > 40kph cruising, the engine stalled suddenly without any warning
> > signals,
> > > after that the ODO indicator showed "-----" and can not restart
> > > engine,
> > > this vehicle was buy in Sept, 2001, the accumulated mileage was 7034KM
> > > only,
> > > it causes the customer very big concern and our S& M people do their
> > > best to
> > > try to explain and calm down customer's emotion.
> > > As your mail, do you have any experience for engine stall? and the
> > > Improved
> > > parts can prevent this engine stall? what actions shall be taken?
> > > Any queries of this case you want to understand please let me know.

> > >

> > > Regards,

> > > — Original Message —

> > > From: "Maurer, James (J.B.)" <jmaurer@ford.com>

> > > To: "Chen, Smith S N (S.)" <schen16@ford.com>

> > > Cc: "Gatas, Freeman (F.C.)" <fgatas@ford.com>; "Freeland, Mark (M.)"

> > > <mfreela1@ford.com>

> > > Sent: Tuesday, April 02, 2002 11:27 PM

> > > Subject: FW: DPFE EGR Part Concern

> > >

> > >

> > > > Mr. Chen,

> > > >

> > > > Your attached files did not come through to me, so I don't know the

> > > > specifics for your vehicle.

> > > >

> > > > One of the failure modes of the sensor is that it may short and draw

> > > >

> > > > high current from the PCM (engine control module). When this

> > > > happens,

> > > > the voltage that is supplied to the microprocessor inside the PCM is

> > > > not

> > > > sufficient to keep the PCM operating. When the microprocessor is

> > > > not

>>>> running, there are no signals to the fuel injectors, ignition coils,
>>> and
>>>> other components required to keep the engine running.
>>>>
>>>> The circuit inside the sensor was changed to eliminate this issue.
>>> A
>>>> resistor was added to limit the amount of current the sensor would
>>> draw
>>>> when it shorted, and another resistor and diode were added to
>>> eliminate
>>>> electrical noise issues that could potentially cause the short to
>>> occur.
>>>> The new part was released on concern C11286321. Production began
>>>> January 7, 2002.
>>>>
>>>> I am interested in knowing the details about why a customer would
>>> sue
>>>> over this issue. Does the customer want you to buy back the vehicle
>>> if
>>>> it cannot be fixed? The latest level part should take care of the
>>>> issue.
>>>>
>>>>
>>>> Regards,
>>>> Jim Maurer
>>>> James B. Maurer
>>>> V-Engine 6-Sigma Team Leader
>>>> Fuel Metering Dept. V Engine Engineering
>>>> Phone (313) 390-3872, Fax (313) 390-4084
>>>> Text Page: (313) 795-5219
>>>> Email: jmaurer@Ford.com
>>>>
>>>> —Original Message—
>>>> From: Owens, Karen (K.E.)
>>>> Sent: Tuesday, April 02, 2002 9:58 AM
>>>> To: Chen, Smith S N (S.)
>>>> Cc: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)

>>> Subject: RE: DPFE EGR Part Concern

>>>

>>>

>>> Mr., Chen:

>>> I am no longer working on this matter, James Maurer (JMAURER) is the

>>> new

>>> team leader. I am forwarding your note to him.

>>>

>>> Jim:

>>> Please respond to Mr. Chen. Thank you.

>>>

>>>

>>> Change is Good. Proactivity is Better!

>>> Karen E. Owens

>>> Supervisor

>>> Modular V8/V10 Engine Systems

>>> (off) 313.845.5770

>>> (fax) 313.390.1229

>>>

>>> —Original Message—

>>> From: echen16 [mailto:echen16@ford.com]

>>> Sent: Wednesday, March 27, 2002 3:25 AM

>>> To: Owens, Karen (K.E.)

>>> Cc: Jack Jao

>>> Subject: DPFE EGR Part Concern

>>>

>>>

>>> Miss Owens:

>>> How are you, we recently have a special case that DPFE EGR part

>>> malfunction and causing engine stalled w/o any warning during

>> driving,

>>> this customer is proposed to sue to company if we can not provide a

>>> reasonable reason. Attached file please find the failure mode 2

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>>> causing engine stall immediately during drive, the failure mode 1

>>> which

> > > > is other defeat parts data, and we also show the new parts and dura.
> > > > test part. Please give us a special effort to explain this concern.
> > > > Your quick response will be requested and appreciated.
>

From: schen16 [schen16@ford.com]
Sent: Thursday, April 11, 2002 3:03 AM
To: Freeland, Mark (M.)
Cc: Gates, Freeman (F.C.); Jao, Jack (J.); Kwon, Soon (S.K.); Maurer, James (J.B.)
Subject: Re: DPFE EGR Part Concern



Fw: U204 DPFE.
cause the engin... Mark:

Attached file please find the information that responded from our ACSG people, this vehicle was "Tribute 2.0L" imported car, however, I can't get this car so far but the PCM parts No. shall be "YL8Z-12A650-TG". The Lot # of this EGR part is "1F19B", Mr. C.K.Chang will mail this part to you ASAP .

Regards,

— Original Message —

From: "Freeland, Mark (M.)" <mfreela1@ford.com>
To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Kwon, Soon (S.K.)" <skwon@ford.com>; "Maurer, James (J.B.)" <jmaurer@ford.com>; "Freeland, Mark (M.)" <mfreela1@ford.com>
Cc: "Huang, M (M.T.)" <mhuang3@ford.com>; "Freeland, Mark (M.)" <mfreela1@ford.com>; "Gates, Freeman (F.C.)" <fgates@ford.com>; "Jao, Jack (J.)" <jjao@ford.com>
Sent: Tuesday, April 09, 2002 9:57 PM
Subject: RE: DPFE EGR Part Concern

> Smith,

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> This is great news. Can you also tell me if the original dPFE sensor is
> still with the vehicle, if so it would be very helpful to get that back
> also. We can provide a replacement for the dPFE sensor.
> I will need additional information on the vehicle to obtain a
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> Also, can you please provide me with the complete service history on the
> vehicle.
>
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> SRL Room 1517/MD 2629
> 2101 Village Road
> Dearborn, MI 48121-2053
>
> Jim,
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> Do you have any idea if we can obtain a replacement PCM for an overseas
> application locally? Any thoughts, please let me know.
>
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> Regards
>
> Mark Freeland
>
>> 6-Sigma Black Belt
>> Engine Research Department
>> Ford Research Laboratory
>> P.O. Box 2053
>> MD 2629 - SRL - Room 1517
>> Dearborn, MI 48121-2053 USA
> email: mfreela1@ford.com
> Tel.: (313) 594-7645
>
>
> —Original Message—
> From: schen16 [mailto:schen16@ford.com]
> Sent: Monday, April 08, 2002 10:51 PM
> To: Kwon, Soon (S.K.); Maurer, James (J.B.); Freeland, Mark (M.)
> Cc: Huang M. T.; Freeland, Mark (M.); Gates, Freeman (F.C.); Jao, Jack
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> Subject: Re: DPFE EGR Part Concern

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> It is possible to get the PCM from the concern vehicle, due to our

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> replacement. Please also show your detailed address, I can mail to you

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> it is available.

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> --- Original Message ---

> From: "Freeland, Mark (M.)" <mfreela1@ford.com>

> To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Maurer, James (J.B.)"

> <jmaurer@ford.com>; "Kwon, Soon (S.K.)" <skwon@ford.com>

> Cc: "Jao, Jack (J.)" <jjao@ford.com>; "Gates, Freeman (F.C.)"

> <fgates@ford.com>; "Freeland, Mark (M.)" <mfreela1@ford.com>

> Sent: Monday, April 08, 2002 9:42 PM

> Subject: RE: DPFE EGR Part Concern

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>

>> Smith,

>> Would it be possible to obtain the PCM from the subject vehicle as

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>> the dPFE sensor to go into the high current mode and become shorted?

>>

>> Regards

>>

>> Mark Freeland

>>

>>> 6-Sigma Black Belt

>>> Engine Research Department

>>> Ford Research Laboratory

>>> P.O. Box 2053

> > > MD 2629 - SRL - Room 1517
> > > Dearborn, MI 48121-2053 USA
> > email: mfreela1@ford.com
> > Tel.: (313) 594-7645

> >

> >

> > —Original Message—

> > From: schen16 [mailto:schen16@ford.com]
> > Sent: Wednesday, April 03, 2002 12:11 AM
> > To: Maurer, James (J.B.); Kwon, Soon (S.K.)
> > Cc: Jack Jao; Gates, Freeman (F.C.); Freeland, Mark (M.)
> > Subject: Re: DPFE EGR Part Concern

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> > Please find the attached file for the measuring data of the defeat
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> > Regards,

> > — Original Message —

> > From: "Maurer, James (J.B.)" <jmaurer@ford.com>

> > To: "Chen, Smith S N (S.)" <schen16@ford.com>
> > Cc: "Gates, Freeman (F.C.)" <fgates@ford.com>; "Freeland, Mark (M.)"
> > <mfreela1@ford.com>
> > Sent: Tuesday, April 02, 2002 11:27 PM
> > Subject: FW: DPFE EGR Part Concern
> >
> >
> > > Mr. Chen,
> > >
> > > Your attached files did not come through to me, so I don't know the
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> > >
> > > One of the failure modes of the sensor is that it may short and draw
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> > > The new part was released on concern C11286321. Production began
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> > > issue.

> > >

> > >

> > > Regards,

> > > Jim Maurer

> > > James B. Maurer

> > > V-Engine 6-Sigma Team Leader

> > > Fuel Metering Dept. V Engine Engineering

> > > Phone (313) 390-3672, Fax (313) 390-4084

> > > Text Page: (313) 795-5219

> > > Email: jmaurer@Ford.com

> > >

> > > ---Original Message---

> > > From: Owens, Karen (K.E.)

> > > Sent: Tuesday, April 02, 2002 9:58 AM

> > > To: Chen, Smith S N (S.)

> > > Cc: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)

> > > Subject: RE: DPFE EGR Part Concern

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> > > Change is Good. Proactivity is Better!

> > > Karen E. Owens

> > > Supervisor

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> > > (off) 313.845.5770

> > > (fax) 313.390.1229

> > >

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> > > Sent: Wednesday, March 27, 2002 3:25 AM

> > > To: Owens, Karen (K.E.)

> > > Cc: Jack Jao

> > > Subject: DPFE EGR Part Concern

> > >

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Sent: Monday, April 08, 2002 10:51 PM
To: Kwon, Soon (S.K.); Maurer, James (J.B.); Freeland, Mark (M.)
Cc: Huang M. T.; Freeland, Mark (M.); Gates, Freeman (F.C.); Jao, Jack (J.)
Subject: Re: DPFE EGR Part Concern

Mark:

It is possible to get the PCM from the concern vehicle, due to our company decided to buy back this vehicle to solve the customer's big concern, however, we will send PCM to you if you can provide a new one for replacement. Please also show your detailed address, I can mail to you when it is available.

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— Original Message —

From: "Freeland, Mark (M.)" <mfreela1@ford.com>
To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Maurer, James (J.B.)" <jmaurer@ford.com>; "Kwon, Soon (S.K.)" <skwon@ford.com>
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Sent: Monday, April 08, 2002 9:42 PM
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>
>> 6-Sigma Black Belt
>> Engine Research Department
>> Ford Research Laboratory
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ENG2-827-G 21688

> > MD 2629 - SRL - Room 1517
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> To: Maurer, James (J.B.); Kwon, Soon (S.K.)
> Cc: Jack Jao; Gates, Freeman (F.C.); Freeland, Mark (M.)
> Subject: Re: DPFE EGR Part Concern

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> --- Original Message ---
> From: "Maurer, James (J.B.)" <jmaurer@ford.com>
> To: "Chen, Smith S N (S.)" <sch16@ford.com>
> Cc: "Gates, Freeman (F.C.)" <fgates@ford.com>; "Freeland, Mark (M.)"
> <mfreela1@ford.com>

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>

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>> Jim Maurer

> > James B. Maurer
> > V-Engine 6-Sigma Team Leader
> > Fuel Metering Dept. V Engine Engineering
> > Phone (313) 390-3672, Fax (313) 390-4084
> > Text Page: (313) 795-5219
> > Email: jmaurer@Ford.com

> >

> > —Original Message—

> > From: Owens, Karen (K.E.)
> > Sent: Tuesday, April 02, 2002 9:58 AM
> > To: Chen, Smith S N (S.)
> > Cc: Maurer, James (J.B.); Gates, Freeman (F.C.); Freeland, Mark (M.)
> > Subject: RE: DPFE EGR Part Concern

> >

> >

> > Mr., Chen:

> > I am no longer working on this matter, James Maurer (JMAURER) is the
> > new

> > team leader. I am forwarding your note to him.

> >

> > Jim:

> > Please respond to Mr. Chen. Thank you.

> >

> >

> > Change is Good. Proactivity is Better!

> > Karen E. Owens

> > Supervisor

> > Modular V8/V10 Engine Systems

> > (off) 313.845.5770

> > (fax) 313.390.1229

> >

> > —Original Message—

> > From: schen16 [mailto:schen16@ford.com]
> > Sent: Wednesday, March 27, 2002 3:25 AM
> > To: Owens, Karen (K.E.)
> > Cc: Jack Jao
> > Subject: DPFE EGR Part Concern

> >

> >

> > Miss Owens:

> > How are you, we recently have a special case that DPFE EGR part
> > malfunction and causing engine stalled w/o any warning during driving.
> > this customer is proposed to sue to company if we can not provide a
> > reasonable reason. Attached file please find the failure mode 2 which
> > is
> > causing engine stall immediately during drive, the failure mode 1
> > which
> > is other defeat parts data, and we also show the new parts and dura.
> > test part. Please give us a special effort to explain this concern.
> > Your quick response will be requested and appreciated.

From: Shinji Kanai [kanai.sh@sv.mazda.co.jp]
Sent: Wednesday, June 19, 2002 10:05 AM
To: 'Sanders, Muriel (M.S.);' 'Altoonian, Don (D.J.);' 'Aynessazien, Kam (K.);' 'Badgley, Joel (J.K.);' 'Bauer, Scott (S.C.);' 'Bhojwani, Kamal (K.);' 'Blackburn, Thomas (T.J.);' 'Bogema, John (P.);' 'Cary Powell;' 'Chick, John (J.);' 'Chih, Ming-Niu (M.N.);' 'Chin, Darrel (D.);' 'Corbett, Sandra (S.M.);' 'Dalbu, Bob (R.J.);' 'Dan Rothweiler;' 'De Pena, Juan (J.E.);' 'Diez, Timothy (T.P.);' 'Faacetti, Bob (R.J.);' 'Foumelle, Gilbert (G.);' 'Freeland, Mark (M.);' 'Giles, Stuart (S.);' 'Gokhala, Ranuka (R.V.);' 'Grewal, Bill (B.S.);' 'Grimes, Jeff (J.R.);' 'Hansen, George (G.C.);' 'Harr, George (G.J.);' 'Hofman, Michael (M.V.);' 'Holmes, Jeffrey (J.R.);' 'Ichikawa, Jyunichiro (J.);' 'Jensen, Ted (T.E.);' 'John McDonald;' 'Jones, Andy;' 'Jordan, Donald (D.E.);' 'Kanai, Shinji (S.);' 'King, Robert (R.F.);' 'Kosko, Jeff (J.R.);' 'Kwon, Soon (S.K.);' 'Liritiaco, Stavan (S.);' 'Linde, Peter (P.A.);' 'Liu, Jane (J.);' 'Mandziuk, Roger (R.S.);' 'Marck, Edmond (E.C.);' 'Matasa, John (J.);' 'Maurer, James (J.B.);' 'Mazzella, Gary (G.R.);' 'Mooney, Larry (L.);' 'Moorhouse, Scott (S.R.);' 'Morgan, Tom;' 'Morihsima, Shigeki (S.);' 'Naveed Khan;' 'Nematollahi, Sonya (S.);' 'Nikolai, Bernie;' 'Noteboom, Jim (J.E.);' 'Ortman, James (J.W.);' 'Powers, Ken (K.W.);' 'Price, Martin (M.);' 'Rauepau, Alden (A.P.);' 'Shah, Kiran (K.C.);' 'Shiraishi, Masaru (M.);' 'Stilgenbauer, Jeffrey (J.R.);' 'Suarez, Rhee (R.);' 'Takasawa, Keith (K.D.);' 'Takubo, Hirochi (H.);' 'Veenstra, Tim (T.W.);' 'Wakenell, Ray (R.A.);' 'Wettach, Bill (B.);' 'Williams, Les (LHW.);' 'Yeung, Lem (.)'
Subject: One example of Engine quit

My lease vehicle 2002MY Tribute experienced engine quit last night.

4F2YU08172KM28336 Build 12/11/2001, Retail 1/11/2002
Mileage: 7360 miles Event: 6/18/2002

After 25 minutes Freeway driving, I exited and stopped traffic signal.
About 30 sec. later I started moving to left turn and stopped at traffic signal again about 50m later.
About 30 sec. later I started moving 20m and right turn.
Then I gave throttle accelerating vehicle up to 35 MPH - 40MPH at slight up hill about 200m.
Then road switched down hill, I released throttle. Usually vehicle slight increase speed up to 45MPH about 200m.
I applied throttle gently after changing road up hill. Few seconds later I realized that vehicle kept down speed and three warning lamp illuminated about 40MPH.
I did not calm enough.
I turned key to start position, but engine did not start because shifter was stayed D range.
I cycled key OFF and ON again, all warning lamp illuminated about 25MPH.
I applied brake to reduce speed and turned vehicle to left.
I shifted N range and cranked. Small gear noise (starter engagement ?) was heard but Engine started normally about 10 MPH.

I remember engine rpm dropped twice on this vehicle during last 6 month.
Possibly engine rpm drop might happen more than two, but I recognized twice.
One is same location same direction, another one was opposite direction almost same location.
No BCM like building or equipment near there, as far as I know.
This is my first V6-4WD model. Previous Tribute was I4-4WD.
I will bring this vehicle to dealer for usual scheduled (7,500 miles) maintenance this week.
I will ask dealer to reflash PCM calibration and continue to monitor.

If you have any question or comment, please feel free to contact to me.

Shinji Kanai
Manager, Tribute Plant QA

ERR2-027-G 21877

Mazda North American Operations

Ford Kansas City Assembly Plant
Plant Vehicle Team

8121 N.E. Hwy. 69, Claycomo, MO 64119 USA

Tel: 816-459-1623/ Fax: -1726/ e-mail: kanai.sh@sv.mazda.co.jp

Local Text Pager: 9135677156@alphapage.airtouch.com

From: Simko, Steven (S.J.)
Sent: Friday, June 07, 2002 9:02 AM
To: Freeland, Mark (M.); Hargas, Jon (.)
Subject: Media Reports of Focus Stalling

Mark,

I heard on the radio today that NHTSA is opening two investigations on Focus, one for engine stalls. The radio report quoted Clarence Ditlow, from the Center for Auto Safety, a plaintiff's attorney's clearing-house for lawsuits concerning auto safety. He is extremely good at stirring up negative publicity in auto safety cases. I checked the clipsheet this morning looking for more information about NHTSA's investigation and found the following article. It suggests plugged fuel lines as the cause for stalling (see highlighted region). I just thought you should know this information.

Steve Simko

Government opens new safety investigations into Ford Focus over engine, suspension

Associated Press Newswires 06/06/02
author: Nedra Pickler
Copyright 2001. The Associated Press. All Rights Reserved.

WASHINGTON (AP) – Safety officials have opened two new investigations into the Ford Focus, this time amid complaints the engine can suddenly stall and the front suspension can collapse.

Hurd,
cannot
time.

The government has begun six investigations into the popular subcompact this year. Tim a spokesman for the National Highway Traffic Safety Administration, said Thursday he recall the government's ever having as many investigations into one vehicle at the same

Seventy-two people told NHTSA that the Focus stalled while they were driving, including seven who crashed. Seven people reported the front suspension control arm fractured while they were driving, leading to six crashes.

years,

The investigation into engine stall involves 574,700 cars from the 2000 and 2001 model the first two years of production. The suspension investigation also includes the 2002 model year.

The Focus is the country's fifth-best-selling car, trailing only the Honda Accord, Toyota Camry, Ford Taurus and Honda Civic. But it has been plagued with safety problems, already having been recalled eight times for problems ranging from faulty seat latches and windshield wipers to a throttle that can stick open.

Two of NHTSA's other open investigations involve possible air bag malfunctions, while the remaining were prompted by reports the rear wheel bearings could fail and the engine could catch fire.

NHTSA investigators said the alleged engine stall problem may be caused by debris

accumulating in the gas tank, blocking fuel from being delivered to the engine.

were NHTSA also is stepping up its investigation into nearly half a million General Motors Corp. vehicles after 28 crashes were blamed on a possible steering problem. More than 1,200 people have complained that the steering rack and pinion suddenly locked up while they driving.

Grand The investigation involves the 1998 Oldsmobile Intrigue and 1997 models of the Pontiac Prix, Pontiac Tran Sport, Chevrolet Venture, Chevrolet Malibu, Oldsmobile Silhouette and Oldsmobile Cutlass.

The problem can cause the driver to lose steering control. GM reported six crashes in which eight people were hurt, but no injuries or deaths were reported in the other 22 crashes.

NHTSA opens any investigation with a preliminary inquiry, in which the agency and the manufacturer exchange paperwork. That is the stage of the Focus investigations.

vehicle in The agency can upgrade the case to an engineering analysis if it wants to examine the detail for a possible safety defect. The GM investigation is in this stage.

NHTSA's investigations can lead to a recall, but many are dropped.

Spokesmen for Ford and General Motors would not comment on the investigations except to say the companies are cooperating with the agency.

the NHTSA also opened a preliminary investigation into about 75,000 Toyota T100 pickups from the 1993 through 1998 model years. Fourteen people have complained to the agency that clutch pedal mounting bracket or the firewall where it attaches will fracture while driving.

Increase. The problem would stop the clutch from disengaging when the pedal is pressed and could cause the vehicle to move unintentionally, the engine to stall or stopping distances to

From: Simko, Steven (S.J.)
Sent: Friday, May 17, 2002 7:39 AM
To: Freeland, Mark (M.)
Subject: RE: Preparation for dPFE trip to Analytical Solutions

Mark,

I will make the 1:30 PM meeting today. I will also try to get that Steve Simler guy to come too! :-)

Steve

PS As always, life is busy, so please stop by on your way to the meeting room and drag me down there.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, May 16, 2002 12:57 PM
To: Hargas, Jon (.); Simko, Steven (S.J.); Simler, Steven (S.K.)
Subject: RE: Preparation for dPFE trip to Analytical Solutions

OOPS,

Sorry Steve Simler, it was not meant for you.

Sorry Steve Simko, the invite was meant for you.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Appointment-----

From: Hargas, Jon (.)
Sent: Thursday, May 16, 2002 11:55 AM
To: Freeland, Mark (M.)
Subject: Tentative: Preparation for dPFE trip to Analytical Solutions
When: Friday, May 17, 2002 1:30 PM-4:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: SRL Conf Room 1347 (10)

Not unless you invite Steve Simko. Who is Steve Simler?
Jon

From: Simko, Steven (S.J.)
Sent: Monday, March 25, 2002 11:15 AM
To: Freeland, Mark (M.)
Subject: RE: dPFE Unprotected Area Damage

Mark,

I just read Ed's notes and I had a few comments I wanted to pass on. I agree with Ed that hypothesis #3 is the most likely one given the current data. We need to explain how a large amount of aluminum "disappears" from the device after the passivation is formed and this is the most likely mechanism that I have heard. However, I was surprised that in his discussion of possible entry points he did not make note of the holes we are finding in the gold bond pads. In my opinion, this is the most likely entry pathway. I also believe that once hypothesis #3 has removed material, there is a cavity left behind where processing fluids collect and allow hypothesis #2 to occur. It is likely that this would result in additional aluminum oxidation and growth of the aluminum oxide debris that Jon and I observe.

Best Regards,

Steve

Subject: Kavlico Meeting
Start: Wed 3/13/2002 1:00 PM
End: Wed 3/13/2002 4:00 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Required Attendees: Simko, Steven (S.J.); Frestland, Mark (M.); SRL Conf Room 2151 (20)

From: Simko, Steven (S.J.)
Sent: Tuesday, March 12, 2002 9:32 AM
To: Froeland, Mark (M.)
Subject: Accepted: Meeting with Kavlico to review SRL work on UPAD

ERG2-027-G 21710

From: Srivastava, Shivhari (S.P.)
Sent: Wednesday, April 10, 2002 3:59 PM
To: Fashina, Ayodeji (A.); Selleck, Beth (B.); Morton, Michael (M.F.); Trombetta, Christopher (C.B.); Cvetkovski, Peter (P.); Coyne, Kevin (K.W.); Gwozdek, Tom (T.M.); Agarwal, Apoorva (A.); Tobis, Bruce (B.J.); Rezaee, John (J.H.); Freeland, Mark (M.); Srivastava, Shivhari (S.P.)
Cc: Dhallwal, Dave (D.S.); Bell, Ryan (R.M.); MacDonald, George (G.F.)
Subject: Wayne Power train Containment Matrix / PQR Presentations On April 17th

Team,

If you are working on Focus PT issues then mark your calendar for this meeting. Your presence is very crucial for the success of the team.

WHAT: Wayne Power train Containment Matrix / PQR Presentations - by G. MacDonald

WHEN: PT VRT Meeting, 11 - 12 Noon (Presentation From 11:30AM), 04/17/02

WHERE: Wayne Maverick Conference Room

Note:

We postponed this presentation for next week because only 2 BB's came to attend this meeting. Let us fill the room next week to show our support. Ryan, pl. support the PT VRT and request all PT BB's to attend this meeting.

Thanks

Shivhari Srivastava

Body & Chassis Black Belt, G.C.E.
(Consumer Driven 6-Sigma)
ph. 313-322-5392 / pg. 313-795-8141

From: SRL Conf Room 1347 (10)
Sent: Monday, April 08, 2002 5:14 PM
To: Freeland, Mark (M.)
Subject: Accepted: Kevico dPFE UPAD research

Conference room is available. Meeting accepted.

From: Steven Limtiaco [SLimtiac@mazdausa.com]
Sent: Wednesday, August 07, 2002 2:07 PM
To: 'mfreela1@ford.com'
Subject: FW: Tribute DPFE sensors

Hi Mark,

The package of 85 pcs shipped today via fed ex #4372 0330 1590. ETA is tomorrow (Thursday) afternoon.

Steve Limtiaco
Mazda North American Operations
Tribute Product Support
949-442-6514 (phone)
949-442-6599 (fax)
e-mail: slimtiac@mazdausa.com

-----Original Message-----

From: Steven Limtiaco
Sent: Tuesday, August 06, 2002 11:26 AM
To: 'Freeland, Mark (M.)'
Subject: RE: Tribute DPFE sensors

Hi Mark,

No problem shipping the package out. Could you provide a shipping address?

Steve Limtiaco
Mazda North American Operations
Tribute Product Support
949-442-6514 (phone)
949-442-6599 (fax)
e-mail: slimtiac@mazdausa.com

-----Original Message-----

From: Freeland, Mark (M.) [mailto:mfreela1@ford.com]
Sent: Monday, August 05, 2002 12:43 PM
To: Limtiaco, Steven (S.)
Subject: RE: Tribute DPFE sensors

Steve,

Thanks for the update.

Please ship what you have, then I can get started looking at them, it will take some time to process all the parts.

Regards

Mark Freeland

2002-827-G 21749

> 6-Sigma Black Belt
> Engine Research Department
> Ford Research Laboratory
> P.O. Box 2053
> MD 2629 - SRL - Room 1517
> Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Steven Lintiacco [mailto:SLintiac@mazdausa.com]
Sent: Friday, August 02, 2002 5:12 PM
To: 'mfreela1@ford.com'
Cc: 'msander6@ford.com'; 'rdalbo@ford.com'
Subject: Tribute DPF sensors
Importance: High

Mark,

A quick note to let you know I am still collecting the DPFs from the Mazda buybacks. I have 85 pieces so far. There is one more region that I'm waiting on and expect them to be completed by next week. If you would like the parts I have right now, I'd be glad to ship them to you ASAP.

Steve Lintiacco
Mazda North American Operations
Tribute Product Support
949-442-6514 (phone)
949-442-6599 (fax)
e-mail: slintiac@mazdausa.com

ER02-027-G 21750

From: Steven Limtiaco [SLimtiac@mazdausa.com]
Sent: Tuesday, August 06, 2002 2:26 PM
To: 'Freeland, Mark (M.)'
Subject: RE: Tribute DPFE sensors

Hi Mark,

No problem shipping the package out. Could you provide a shipping address?

Steve Limtiaco
Mazda North American Operations
Tribute Product Support
949-442-6514 (phone)
949-442-6599 (fax)
e-mail: slimtiac@mazdausa.com

-----Original Message-----

From: Freeland, Mark (M.) [mailto:mfreelal@ford.com]
Sent: Monday, August 05, 2002 12:43 PM
To: Limtiaco, Steven (S.)
Subject: RE: Tribute DPFE sensors

Steve,

Thanks for the update.

Please ship what you have, then I can get started looking at them, it will take some time to process all the parts.

Regards

Mark Freeland

> 6-Sigma Black Belt
> Engine Research Department
> Ford Research Laboratory
> P.O. Box 2053
> MD 2629 - SRL - Room 1517
> Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7545

-----Original Message-----

From: Steven Limtiaco [mailto:SLimtiac@mazdausa.com]
Sent: Friday, August 02, 2002 5:12 PM
To: 'mfreelal@ford.com'
Cc: 'msander6@ford.com'; 'rdalbo@ford.com'
Subject: Tribute DPFE sensors
Importance: High

Mark,

ERG2-027-0 21751

A quick note to let you know I am still collecting the DPFEs from the Mazda buybacks. I have 85 pieces so far. There is one more region that I'm waiting on and expect them to be completed by next week. If you would like the parts I have right now, I'd be glad to ship them to you ASAP.

Steve Limtiaco
Mazda North American Operations
Tribute Product Support
949-442-6514 (phone)
949-442-6599 (fax)
e-mail: slimtiac@mazdausa.com

From: Steven Limtiaco [SLimtiac@mazdausa.com]
Sent: Friday, August 02, 2002 5:12 PM
To: 'mfree1@ford.com'
Cc: 'msander6@ford.com'; 'rdalbo@ford.com'
Subject: Tribute DPFE sensors

Importance: High

Mark,

A quick note to let you know I am still collecting the DPFEs from the Mazda buybacks. I have 85 pieces so far. There is one more region that I'm waiting on and expect them to be completed by next week. If you would like the parts I have right now, I'd be glad to ship them to you ASAP.

Steve Limtiaco
Mazda North American Operations
Tribute Product Support
949-442-6514 (phone)
949-442-6599 (fax)
e-mail: slimtiac@mazdausa.com

From: Surti, P. J. (P.J.)
Sent: Tuesday, July 16, 2002 8:44 AM
To: Johnson, Joe (J.H.)
Cc: Gates, Freeman (F.C.); Freeland, Mark (M.); DiAngelo, Renaldo (R.); Surti, P. J. (P.J.)
Subject: FW: Shorted Sensor

Hello Joe - At first I was going to ship the subject DPFE sensor to you but I was requested to send it to Mr. Freeman and then eventually to Mr. Freeland.
So, the sensor has been sent, Attn. name, To: Freeman. This is just FYI...

P. J. Surti

Powertrain FQE
T. No. (714) 982-3227
Fax No. (714) 982-4448

---Original Message---

From: Gates, Freeman (F.C.)
Sent: Tuesday, July 09, 2002 1:00 PM
To: Surti, P. J. (P.J.)
Subject: RE: Shorted Sensor

Please send this to:

Freeman Gates
Ford Motor
POEE Bldg DP 69
21500 Oakwood Blvd.
Dearborn, MI. 48301

Thanks

---Original Message---

From: Surti, P. J. (P.J.)
Sent: Tuesday, July 09, 2002 12:32 PM
To: Freeland, Mark (M.); Gates, Freeman (F.C.)
Cc: Maurer, James (J.B.); Plante, Paul (P.G.); Rossi, Roberto (R.A.); DiAngelo, Renaldo (R.); Surti, P. J. (P.J.)
Subject: RE: Shorted Sensor

Hello Freeman - Pl. send your mailing address so I can ship the sensor. Thanks...

P. J. Surti

Powertrain FQE
T. No. (714) 982-3227
Fax No. (714) 982-4448

---Original Message---

From: Freeland, Mark (M.)
Sent: Tuesday, July 09, 2002 11:50 AM
To: Surti, P. J. (P.J.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Plante, Paul (P.G.); Rossi, Roberto (R.A.)
Subject: Shorted Sensor

PJ

Please send the sensor back to Freeman Gates.

Freeman,
could you send PJ you're shipping address. After you have done whatever you need to could you give me the

ER82-827-G 21885

P. J. Scott

Powertrain FQE

T. No. (714) 962-3227

Fax No. (714) 962-4448

From: Surti, P. J. (P.J.)
Sent: Tuesday, July 09, 2002 12:32 PM
To: Freeland, Mark (M.); Gates, Freeman (F.C.)
Cc: Maurer, James (J.B.); Plante, Paul (P.G.); Rossi, Roberto (R.A.); DiAngelo, Renaldo (R.); Surti, P. J. (P.J.)
Subject: RE: Shorted Sensor

Hello Freeman - Pl. send your mailing address so I can ship the sensor. Thanks...

P. J. Surti

Powertrain FQE
T. No. (714) 982-3227
Fax No. (714) 982-4448

---Original Message---

From: Freeland, Mark (M.)
Sent: Tuesday, July 09, 2002 11:50 AM
To: Surti, P. J. (P.J.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Plante, Paul (P.G.); Rossi, Roberto (R.A.)
Subject: Shorted Sensor

PJ
Please send the sensor back to Freeman Gates.

Freeman,
could you send PJ you're shipping address. After you have done whatever you need to could you give me the part when I return from vacation, so that we can measure the part's current etc and add the data to our database.

I am asking that it be shipped to you as I will be out on vacation for two weeks and don't want it to get lost.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

---Original Message---

From: Surti, P. J. (P.J.)
Sent: Monday, June 24, 2002 11:24 AM
To: Johnson, Joe (J.H.); Gates, Freeman (F.C.); Bansak, Catherine (C.K.); Freeland, Mark (M.); Maurer, James (J.B.); Jensen, Ted (T.E.)
Cc: Giordano, Mike (M.A.); Dhaliwal, Dave (D.S.); MacDonald, George (G.F.); Malloy, Gene (E.E.); DiAngelo, Renaldo (R.); Noteboom, Jim (J.E.); Peplone, GR (J.); Surti, P. J. (P.J.)
Subject: STRANGE CASE OF 2001 FOCUS STALL

Hello Joe - Pl. see attached CQIS report on 2001 Focus. The high incidence of DPFE quality is known concern and we have talked about it several times in past. But this DPFE failure mode is little strange, shorting Vref to ground and its effect of stalling on the mar

E902-027-G 21008

Also, the Inoperative Odometer display was an interesting part of the failure mode. It took some time to diagnose and finding the root cause due to the lack of communication with PCM and not being able to retrieve the DTCs. If you like to receive this sensor back for further test analysis, I can ship it wherever you like me to do so. So, Pl. let me know. Thanks...

CSQI002

CQIS Indicator Summary

06/24/02 10:43:43

=>

1 of 1

Rpt#: 2FXI4001 PTOFSE Rpt: 06/24/2002 Odom: 11,600 M
Rvw: File: Folder: Images: 0 Print Smy/Disp Detail(P/D):
Vehicle: 2001 FOCUS,SE ,SEDAN 1FAHP34341W110512 Bld: 08/12/2000
Engine: 2.0L ZTECH Cab: 1AK1AZ0A Trans: FN 4SPD Axle: FWD 3.904 A/C: YES
Dealer Id: 05517 SUNSET FORD Ph#: (714) 372-4520
State: California City: Westminster Orig/Callr: P. J. SURTI
Symptom: 6 03 3 93 DRVABL,,CRANKS/NO STAR,START ENG TEMP ,ALL ENGINE TEMP
Addl Sym: St: CCRG/EPRC: Rvw: Dt:
Fix: Caus. Comp: SENSOR ASY EGR PR VL - RPL Condition Code: 42
PSURTI (714) 962-3227 FAX: MIL? N ABA? Symp Vf? Survey? N
EO: EC: Prt St: O
ER: CB: Intmit? N

CONCER VEHICLE QUIT WHILE DRIVING AND WON'T RESTART.

REPAIR THE VEHICLE QUIT WHILE IDLING IN PARK AND WON'T RESTART. CHECKED THE BATTERY AND STARTING SYSTEM. EVERYTHING WAS O'K. HOOKED UP WDS. BUT THERE WAS NO COMMUNICATION WITH PCM AND COULDN'T RUN EEC SELF TEST. ALSO, THE TECH. NOTICED THAT THE ODOMETER DISPLAY ON THE INSTRUMENT CLUSTER WAS INOPERATIVE. RAN PINPOINT TEST FOR EEC SYSTEM. FOUND DPFE SENSOR VREF CKT. SHORTED TO GROUND. REPLACED THE DPFE SENSOR. THE VEHICLE STARTED AFTER THE REPAIR. THE ODOMETER DISPLAY ALSO STARTED TO WORK FINE AFTER THE REPAIR.

P. J. Smith

Powertrain FQE

T. No. (714) 962-3227

Fax No. (714) 962-4448

From: Swick, Curt (C.)
Sent: Tuesday, September 24, 2002 12:48 PM
To: Freeland, Mark (M.)
Cc: Baleczak III, Stan (S.)
Subject: RE: Focus Grounds

i do not believe any grounds changed for the pcm. stan am i right???

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, August 23, 2002 11:49 AM
To: Swick, Curt (C.)
Subject: FW: Focus Grounds

Curt,

Can you help me out here, Do you know the details of ground wiring changes for the PCM for the 2.0L Zetec Focus from 2001 to 2002 MY? Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Gwozdek, Thomas (T.M.)
Sent: Friday, August 23, 2002 8:53 AM
To: Freeland, Mark (M.)
Subject: RE: Focus Grounds

Yes I remember you!

If any changes were made, it was to relocate the underhood grounds on a verticle piece of sheet metal and/or combine them. I haven't been involved in Focus in 8 months, so you need to talk to Curt Swick, electrical PMT leader who may be aware of any wiring related changes going from '01 to '02.

Tom Gwozdek

EESE-NAC Quality / Business Planning Leader,
Certified Black Belt
313-24-87872

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, August 22, 2002 2:30 PM
To: Gwozdek, Thomas (T.M.)
Subject: Focus Grounds

Tom,

Remember me? The guy working on the dPFE, we both gave a presentation to JN at WAP.

Can you fill me in on the details of the changes which were made to the PCM grounding system on the 2.0L

ER02-027-G 21811

Zetec Focus at the model year change over from 2001 to 2002?

Please call me when you can to discuss.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

From: System Administrator
Sent: Wednesday, May 29, 2002 1:26 PM
Subject: Undeliverable: Probe Test Data

Your message did not reach some or all of the intended recipients.

Subject: Probe Test Data
Sent: 5/29/2002 1:22 PM

The following recipient(s) could not be reached:

Brady Davies (E-mail) on 5/29/2002 1:26 PM

The content length of the message is too long for the recipient to take delivery

The MTS-ID of the original message is: c=US;a= ;p=ford;=NA1FCM08-020529172145Z-221636
MSEXCH:IMS:ford:fordna1:NA1ECS06 3903 (000B09B6) Message exceeds size limit

Kyong Park (E-mail) on 5/29/2002 1:26 PM

The content length of the message is too long for the recipient to take delivery

The MTS-ID of the original message is: c=US;a= ;p=ford;=NA1FCM08-020529172145Z-221636
MSEXCH:IMS:ford:fordna1:NA1ECS06 3903 (000B09B6) Message exceeds size limit

From: System Administrator
To: Panaretos, Christine (C.M.)
Sent: Tuesday, March 26, 2002 11:48 AM
Subject: Undeliverable: 14d 3.A.I & II ATTACHMENT

Your message did not reach some or all of the intended recipients.

Subject: 14d 3.A.I & II ATTACHMENT
Sent: 3/19/2002 1:05 PM

The following recipient(s) could not be reached:

Panaretos, Christine (C.M.) on 3/26/2002 11:48 AM
No transport provider was available for delivery to this recipient.

ER02-027-G 21814

From: System Administrator
To: Panaretos, Christine (C.M.)
Sent: Tuesday, March 19, 2002 1:05 PM
Subject: Undeliverable: 14d 3.A.I & II ATTACHMENT

Your message did not reach some or all of the intended recipients.

Subject: 14d 3.A.I & II ATTACHMENT
Sent: 3/19/2002 1:05 PM

The following recipient(s) could not be reached:

Panaretos, Christine (C.M.) on 3/19/2002 1:05 PM
No transport provider was available for delivery to this recipient.

From: System Administrator
To: JHEIMS@FORD.COM
Sent: Thursday, March 14, 2002 5:32 PM
Subject: Undeliverable: SEM help needed.

Your message did not reach some or all of the intended recipients.

Subject: SEM help needed.
Sent: 3/14/2002 5:32 PM

The following recipient(s) could not be reached:

JHEIMS@FORD.COM on 3/14/2002 5:32 PM
The recipient name is not recognized.
The HTS-ID of the original message is: c=us;a= ;p=ford;l=NA1FCS010203142232G6ZW1HT9
MSEXCH:IMS:ford:fordna1:NA1FCS01 0 (00005A6) Unknown Recipient

From: System Administrator
To: 'will73@ford.com'; 'rdalbo@ford.com'; 'daltoon@ford.com'; 'gfoumel@ford.com'
Sent: Monday, March 11, 2002 12:47 PM
Subject: Undeliverable: FW: dPFE sensor evaluation

Your message did not reach some or all of the intended recipients.

Subject: FW: dPFE sensor evaluation
Sent: 3/11/2002 11:39 AM

The following recipient(s) could not be reached:

'will73@ford.com' on 3/11/2002 12:47 PM

The recipient name is not recognized

The MTS-ID of the original message is: c=US;a= ;p=ford;l=NA1FCM08-020311163847Z-106125

MSEXCH:IMS:ford:fordna1:NA1FCS02 3553 (000B09B6) 553 malformed address: <'will73@ford.com'> NOTIFY=FAILURE,DELAY

'rdalbo@ford.com' on 3/11/2002 12:47 PM

The recipient name is not recognized

The MTS-ID of the original message is: c=US;a= ;p=ford;l=NA1FCM08-020311163847Z-106125

MSEXCH:IMS:ford:fordna1:NA1FCS02 3553 (000B09B6) 553 malformed address: <'rdalbo@ford.com'> NOTIFY=FAILURE,DELAY

'daltoon@ford.com' on 3/11/2002 12:47 PM

The recipient name is not recognized

The MTS-ID of the original message is: c=US;a= ;p=ford;l=NA1FCM08-020311163847Z-106125

MSEXCH:IMS:ford:fordna1:NA1FCS02 3553 (000B09B6) 553 malformed address: <'daltoon@ford.com'> NOTIFY=FAILURE,DELAY

'gfoumel@ford.com' on 3/11/2002 12:47 PM

The recipient name is not recognized

The MTS-ID of the original message is: c=US;a= ;p=ford;l=NA1FCM08-020311163847Z-106125

MSEXCH:IMS:ford:fordna1:NA1FCS02 3553 (000B09B6) 553 malformed address: <'gfoumel@ford.com'> NOTIFY=FAILURE,DELAY

From: Szwabowski, Steve (S.J.)
Sent: Friday, August 30, 2002 12:26 PM
To: Freeland, Mark (M.)
Subject: RE: EEC V Engine Simulator

Hi Mark, hope you had luck getting a hold of a simulator. Let me know if you have a problem getting one.

Steve

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 27, 2002 5:55 PM
To: Szwabowski, Steve (S.J.)
Subject: RE: EEC V Engine Simulator

Thanks Steve, I emailed both Mikes already.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Szwabowski, Steve (S.J.)
Sent: Tuesday, August 27, 2002 10:47 AM
To: Freeland, Mark (M.)
Subject: RE: EEC V Engine Simulator

Mark,

I suggest you contact Mike Assenmacher or Mike Short over at FPC A bulking. As of a few weeks ago, they had several Hickok vehicle simulators they were trying to find homes for.

Steve Szwabowski
x81090

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, August 27, 2002 9:57 AM
To: Szwabowski, Steve (S.J.)
Subject: EEC V Engine Simulator

Steve,

I am working with Al Kotwicki on the dPFE issue. Al is on vacation today, but we talked by phone. He suggested that we should get our hands on an EEC V engine simulator to help with our bench work.

He told me that you may be able to help get us one. Could you let me know if you could help.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

ERG2-627-0 21819

From: Szwabowski, Steve (S.J.)
Sent: Tuesday, August 27, 2002 10:47 AM
To: Freeland, Mark (M.)
Subject: RE: EEC V Engine Simulator

Mark,

I suggest you contact Mike Assenmacher or Mike Short over at FPC A building. As of a few weeks ago, they had several Hickok vehicle simulators they were trying to find homes for.

Steve Szwabowski
x81090

—Original Message—

From: Freeland, Mark (M.)
Sent: Tuesday, August 27, 2002 9:57 AM
To: Szwabowski, Steve (S.J.)
Subject: EEC V Engine Simulator

Steve,

I am working with Al Kotwicki on the dPFE issue. Al is on vacation today, but we talked by phone. He suggested that we should get our hands on an EEC V engine simulator to help with our bench work.

He told me that you may be able to help get us one. Could you let me know if you could help.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

From: Tackman, Karen [KTackman@kavlico.com]
Sent: Wednesday, May 15, 2002 2:08 PM
To: Park, Kyong; Maurer, James (J.B.)
Cc: Davies, Brady; 'mfreela1@ford.com'; 'fgates@ford.com'
Subject: RE: Trip to Analytical Solutions In New Mexico, USA

Hotel name correction:

> Kyong Park and Brady Davies will be arriving in Albuquerque on Sunday, May
> 19, 2002. They will be staying at Holiday Inn Express, 10330 Hotel Avenue
> NE, Albuquerque. The phone number is (505) 275-8900. If there is any
> additional information you may need, please let me know.

>

> -----Original Message-----

> From: Park, Kyong
> Sent: Tuesday, May 14, 2002 3:53 PM
> To: Maurer, James (J.B.)
> Cc: Tackman, Karen; Davies, Brady; mfreela1@ford.com;
> fgates@ford.com
> Subject: Trip to Analytical Solutions in New Mexico, USA

>

> Dear Jim,
> Brady and I will be flying out to New Mexico on Sunday, May 19,
> 2002. We are planning to arrive at around 4 PM in local time. We will fly
> back Monday evening.

>

> As soon as I learn our itinerary, we will let you know.
> Yours,
> Kyong

>

From: Tackman, Karen [KTackman@kavilco.com]
Sent: Wednesday, May 15, 2002 1:34 PM
To: Park, Kyong; 'Maurer, James (J.B.)'
Cc: Davies, Brady; 'mfrela1@ford.com'; 'fgates@ford.com'
Subject: RE: Trip to Analytical Solutions in New Mexico, USA

Kyong Park and Brady Davies will be arriving in Albuquerque on Sunday, May 19, 2002. They will be staying at Hilton Express, 10330 Hotel Avenue NE, Albuquerque. The phone number is (505) 275-8900. If there is any additional information you may need, please let me know.

> -----Original Message-----

> **From:** Park, Kyong
> **Sent:** Tuesday, May 14, 2002 3:53 PM
> **To:** Maurer, James (J.B.)
> **Cc:** Tackman, Karen; Davies, Brady; mfrela1@ford.com; fgates@ford.com
> **Subject:** Trip to Analytical Solutions in New Mexico, USA

>
> Dear Jim,
> Brady and I will be flying out to New Mexico on Sunday, May 19, 2002. We
> are planning to arrive at around 4 PM in local time. We will fly back
> Monday evening.

>
> As soon as I learn our itinerary, we will let you know.
> Yours,
> Kyong
>

From: Tamashiro, Terry [TTamashiro@kavlico.com]
Sent: Thursday, April 18, 2002 2:45 PM
To: Akins, Mary; Freeland, Mark (M.)
Subject: 2nd St. Thomas return



RML9138-001.rtf

Mark,

This is the report for the 2nd St. Thomas return. This is the unit we found scratches on.

<<RML9138-001.rtf>>

Terry Tamashiro
Kavlico, a Solectron Company
Telephone: 805-523-2000 ext. 2469
Fax: 805-523-8475

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From: Tamashiro, Terry [TTamashiro@kavlico.com]
Sent: Monday, March 11, 2002 1:18 PM
To: Freland, Mark (M.)

9134-001 is SRL155

Terry Tamashiro
Kavlico, a C-MAC Company
Telephone: 805-523-2000 ext. 2469
Fax: 805-523-8475

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From: Thakur, Arunima (A.)
Sent: Tuesday, July 02, 2002 1:08 PM
To: Freeland, Mark (M.)
Cc: Fodera, Michael (M.J.)
Subject: Scoping project on wire stow and DPFE install at Wayne

Mark,

Mr. Fodera is the scoper for our department and is trying to scope a wire stow/ DPFE Sensor installation/ fuse box torquing project for Ford Focus Assembly Plant at Wayne, MI.

We would appreciate a quick verification on some data.

Here's the request:

Of all the R/1000 and TGW's on the DPFE sensor, how many do you think would be associated with assembly process at the plant? (Scenario: DPFE is over torqued at one end, and plastic screw head breaks, and dangles, vibrates with the front dash panel, and ultimately becomes ineffective leading to Infant mortality.....)

Wayne has operator(s) manually rotating the DPFE sensor and then torquing it, resulting in cracks at the plastic sleeve of the sensor

Arunima Thakur

Consumer Driven Six Sigma Black Belt (Candidate)

Building: AVT-5/2G103, athakur@ford.com, Ph:313-317-7244
EESE, Global Core Engineering.

From: timothy55@juno.com
Sent: Thursday, May 02, 2002 6:14 PM
To: mfreela1@ford.com
Subject: Sensor data analysis idea.

Mark,

I had an idea on the sensor problem as I drove to my parents last night. Can you find the pickup location of cars that were towed in? If those locations could be found, we would know if sensors go out on highways or by correlating with the owner's home, how close to home they were when the sensor went out. It might give us another clue in this mystery.

Tim.

From: Tracz, Jarek (J.A.)
Sent: Tuesday, December 10, 2002 10:31 AM
To: Freeland, Mark (M.); O'Neill, Jim (J.D.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Ailes, Sheran (S.A.); Kotwicki, Allan (A.J.); Hermann, Thomas (T.J.)
Subject: RE: EMC review of Kavlico DPFE module layouts

Mark,

Good point. Ideally, there should be one layer dedicated entirely to a GND plane, and since this is already a multilayer design it could be easily achieved. That way the GND loops and 'bottlenecks' would be eliminated.

As I mentioned in my previous note, I have not received any feedback from anyone, and had to assume certain conditions while reviewing the art work.

Best Regards,

Jarek A. Tracz
EMC Engineer tel: (313) 323-1919
RVT/EESE fax: (313) 390-5327
Bldg. #5, Cube 2D101 [mailto: jtracz@ford.com](mailto:jtracz@ford.com)

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, December 09, 2002 2:29 PM
To: Tracz, Jarek (J.A.); O'Neill, Jim (J.D.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Ailes, Sheran (S.A.); Kotwicki, Allan (A.J.); Hermann, Thomas (T.J.)
Subject: RE: EMC review of Kavlico DPFE module layouts

Jarek,

In addition to your comments regarding the Kavlico Layout, I noticed that the shortest path on the ground trace between the Connector Pin and C5, C3 and C1 is necked down to a VERY thin trace. I discussed this point with Kavlico during a conference call which Jim Maurer set up with Kavlico last Thursday. Kavlico had already discovered this themselves and intend to fix it.

Did Jim Maurer give you feedback on the meeting? If not then let me know and I will. Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Tracz, Jarek (J.A.)
Sent: Monday, December 09, 2002 11:11 AM
To: Freeland, Mark (M.); O'Neill, Jim (J.D.)
Cc: Gates, Freeman (F.C.); Maurer, James (J.B.); Ailes, Sheran (S.A.); Kotwicki, Allan (A.J.); Hermann, Thomas (T.J.)
Subject: EMC review of Kavlico DPFE module layouts

EA82-827-G 21836

Gentlemen,

I've completed the EMC review of the subject, and my findings are summaries in the attached document.

Having received no feedback regarding the function of such signals as RO, Vout, Vbuf, I've assumed the worst case (i.e. they are low impedance signals susceptible to crosstalk).

Pls, let me know if you have any questions.

<< File: Kavlico dPFE module EMC review.doc >>

Best Regards,

Jarek A. Tracz
EMC Engineer
RVT/EESE
Bldg. #5, Cube 2D101

tel: (313) 323-1919
fax: (313) 390-5327
[mailto: jtracz@ford.com](mailto:jtracz@ford.com)

From: Tsai, Pingfang (P.)
Sent: Friday, August 02, 2002 12:54 PM
To: Freeland, Mark (M.)
Subject: RE: Executive Summary Sheet

Thanks.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, August 01, 2002 1:18 PM
To: Tsai, Pingfang (P.)
Cc: Maurer, James (J.B.)
Subject: FW: Executive Summary Sheet

Pingfang,

If this is regarding the Kavlico TM dPFE Issue, it should be directed to Jim Maurer who is the PTO Team Leader.

Sorry for the delay in getting this info to you, but I have been out of the office for two weeks.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Tsai, Pingfang (P.)
Sent: Tuesday, July 23, 2002 3:01 PM
To: Owens, Karen (K.E.); Freeland, Mark (M.); Mauch, Jerry (J.L.); Jung, Chris (C.)
Cc: Maurin, Pete (P.W.); Awad, Mahmoud (M.I.)
Subject: FW: Executive Summary Sheet

-----Original Message-----

From: Tsai, Pingfang (P.)
Sent: Thursday, July 18, 2002 3:51 PM
To: Schmitt, Ray (R.); Pekarsky, Lev (L.); Cooney, Amy (A.Q.); Wang, Stan (H.); Ahmed, Kamal (K.); Roshanger, Mansoor (M.); Koch, Thomas (T.P.); Koch, Thomas (T.P.); Jones, Joe (J.W.); Awad, Mahmoud (M.I.); Maurin, Pete (P.W.); Revilock, Theodore (T.J.); Shanshal, Yaseir (Y.A.); Patel, Jayesh (J.V.); Fallu, John (W.); Marlow, Bob (R.J.)
Cc: Tsai, Pingfang (P.); Humes, Kimberly (K.R.); Kayall, Talal (T.); Thomas, Mathew (M.); Fox, Bill (W.D.); Fullerton, Lisa (L.M.)
Subject: FW: Executive Summary Sheet

Hi, Team Leaders and RIEs:

Would you please update the Executive Summary Sheet (1 pager) to which the phase is in for the weekly executive review? Please send me the electronic copy for your project by COB 7-24-02 (Wednesday). RIE's, please send it to me if you have the updated copy. If your project was six-sigma format and reviewed in the high mileage meeting, you still need to complete the summary sheet. Attached are the form and sample example for your reference to facilitate the completion. Your cooperation is highly appreciated. Have a great

ERR2-027-G 21840

day.

<< File: 2002 PTO HM Summary Sheet (1 Pager).xls >> << File: ATEO Sample (1 Pager).xls >>

-----Original Message-----

From: Tsai, Pingfang (P.)
Sent: Wednesday, July 17, 2002 5:11 PM
To: Schmitt, Ray (R.); Pakarsky, Lev (L.); Cooney, Amy (A.Q.); Wang, Stan (H.); Ahmed, Kamal (K.); Roshengar, Mansoor (M.); Vida, Ronald (R.I.); Koch, Thomas (T.P.); Koch, Thomas (T.P.); Jones, Joe (J.W.); Awad, Mahmoud (M.I.); Maurin, Pete (P.W.)
Cc: Revlock, Theodore (T.J.); Tsai, Pingfang (P.); Humes, Kimberly (K.R.)
Subject: Executive Summary Sheet

Hi Team Leaders:

As a reminder, please update the Executive Summary Sheet, as part of the evidence book, to which your project phase is in as the project goes along.

Best Regards,

Pingfang Tsai
Reliability Specialist
Automatic Transmission Reliability & Robustness
(734) 45-80177 (O), ptsai@ford.com

From: Uy, Dairene (D.)
Sent: Friday, August 02, 2002 3:48 PM
To: 'Park, Kyong'
Cc: Freeland, Mark (M.); Hanges, Jon (.)
Subject: RE: QMI 536 MSDS

Don't worry, Kyong. I haven't said anything, and Mark and Jon have not either. I will probably call you sometime next week because I would like to know more about it.

Dairene

-----Original Message-----

From: Park, Kyong [mailto:KPark@kavlico.com]
Sent: Friday, August 02, 2002 1:47 PM
To: Uy, Dairene (D.)
Subject: RE: QMI 536 MSDS

Dairene,

You were interested in the statement of 'use at < 35 degree Celsius', I hope you don't misunderstand before you make a public statement.

If you have a question on it, I think I can help you.

Kyong
Tel: 805 523-2000 x2243.

From: Uy, Dairene (D.)
Sent: Friday, July 12, 2002 10:06 AM
To: Carter, Roscoe (R.O.); Hargas, Jon (.)
Cc: Freeland, Mark (M.)
Subject: RE: silicone -IDENTIFIED!

Thanks, Roc. I didn't know that the gel in the chimneys had a silicone copolymer. Anyhow, the silicone I found within the perfluoropolyether was in the form of "flat" bubbles, and their spectra exactly matched the spectrum of the gel outside the chimneys, which is an exact match for polydimethylsiloxane. (I realize I forgot to put the "d" in polydimethylsiloxane in my previous email.)

Dairene

-----Original Message-----

From: Carter, Roscoe (R.O.)
Sent: Friday, July 12, 2002 9:51 AM
To: Uy, Dairene (D.); Hargas, Jon (.)
Cc: Freeland, Mark (M.)
Subject: RE: silicone -IDENTIFIED!

Dairene,

The gel in the chimneys does contain a silicone copolymer but you are like correct that some cross contamination can inadvertently occur. ROC

-----Original Message-----

From: Uy, Dairene (D.)
Sent: Friday, July 12, 2002 9:36 AM
To: Hargas, Jon (.); Carter, Roscoe (R.O.)
Cc: Freeland, Mark (M.)
Subject: RE: silicone -IDENTIFIED!

The silicone I found is polymethylsiloxane, which is the gel material outside the chimneys.

The gel covering the sensor dies is a perfluoropolyether.

I guess there was some contamination of the two gels when Jon was removing them and the chimney.

-----Original Message-----

From: Hargas, Jon (.)
Sent: Thursday, July 11, 2002 6:46 PM
To: Carter, Roscoe (R.O.)
Cc: Freeland, Mark (M.); Uy, Dairene (D.)
Subject: silicone

Roc,

Dairene found some silicones in Raman. It might be best for you to discuss with her your findings about the gel and what is produced when it is overheated.

The gel over the hybrid is different than the gel over the die.

There may be some possibility of cross contamination of the gels.

To get the gel off the scalpel I was using I did have to wipe it onto the nitrile gloves on my hand. I don't know if the nitrile has silicone.

I don't think I have any silicones in the area that I removed the gel. I have vacuum grease and diffusion pump oil in the room, but don't use them on that bench.
Jon

From: Uy, Dairene (D.)
Sent: Friday, July 12, 2002 8:38 AM
To: Hargas, Jon (.); Carter, Roscoe (R.O.)
Cc: Freeland, Mark (M.)
Subject: RE: silicone -IDENTIFIED

The silicone I found is polymethylsiloxane, which is the gel material outside the chimneys.

The gel covering the sensor dies is a perfluoropolyether.

I guess there was some contamination of the two gels when Jon was removing them and the chimney.

| —Original Message—

From: Hargas, Jon (.)
Sent: Thursday, July 11, 2002 6:46 PM
To: Carter, Roscoe (R.O.)
Cc: Freeland, Mark (M.); Uy, Dairene (D.)
Subject: silicone

Roc,

Dairene found some silicones in Raman. It might be best for you to discuss with her your findings about the gel and what is produced when it is overheated.

The gel over the hybrid is different than the gel over the die.

There may be some possibility of cross contamination of the gels.

To get the gel off the scalpel I was using I did have to wipe it onto the nitrile gloves on my hand. I don't know if the nitrile has silicone.

I don't think I have any silicones in the area that I removed the gel. I have vacuum grease and diffusion pump oil in the room, but don't use them on that bench.

Jon

From: Uy, Dairena (D.)
Sent: Thursday, July 11, 2002 2:48 PM
To: Freeland, Mark (M.)
Subject: nitrate

Mark,

I'm looking at my fourth bubble-within-the-gel now, and finally I see a small nitrate peak.

Dairene

Dairene Uy
Physical and Environmental Sciences Department
Ford Research Laboratory
Mail Drop 3063/SRL, PO Box 2053
Dearborn, MI 48121

Phone: 313-594-1849
Fax: 313-322-7044
Email: duy@ford.com

From: Uy, Dairene (D.)
Sent: Thursday, June 06, 2002 4:58 PM
To: Freeland, Mark (M.)
Subject: mudcracks

Mark,

I have taken several Raman spectra of the mudcracks in both dies and I mostly see very strong peaks belonging to silicon. I believe there may be the nitrate peak again there as well, but I have yet to print out the spectra. I will stop by your office tomorrow morning with some spectra as well as the report you made for this sensor, which I have with me right now.

If we suspect some other aluminum compound, it may be that the layers are so thin that I cannot see them using Raman. Or if it is just aluminum oxide, I may have some difficulty as well.

You know what - I have returned the dies to Lebzy but maybe I'll have another go, using our UV laser this time. There's a tiny chance I'll see something different. I'll ask Lebzy for the dies back.

Dairene

Dairene Uy
Physical and Environmental Sciences Department
Ford Research Laboratory
Mail Drop 3063/SRL, PO Box 2053
Dearborn, MI 48121

Phone: 313-594-1649
Fax: 313-322-7044
Email: duy@ford.com

ER02-027-G 21814

From: Uy, Dairena (D.)
Sent: Friday, May 31, 2002 5:04 PM
To: Freeland, Mark (M.)
Subject: Accepted: Testing for Al Hydroxide

sure, I'll come down to your office.

From: Uy, Dalrene (D.)
Sent: Friday, May 31, 2002 4:23 PM
To: Freeland, Mark (M.)
Subject: RE: Raman may detect hydroxide

okay. just let me know when.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, May 31, 2002 4:22 PM
To: Uy, Dalrene (D.)
Cc: Gonzalez, Lebzy (L.)
Subject: RE: Raman may detect hydroxide

OK,

Best then if I meet with you on Monday and Lebzy separately on Tuesday. I have the 14 D team on Tuesday afternoon.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Uy, Dalrene (D.)
Sent: Friday, May 31, 2002 2:36 PM
To: Freeland, Mark (M.)
Subject: RE: Raman may detect hydroxide

I can't make it till the afternoon. I have a long dentist appt. in the morning and then a lunchtime meeting after.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, May 31, 2002 2:34 PM
To: Uy, Dalrene (D.)
Cc: Gonzalez, Lebzy (L.)
Subject: RE: Raman may detect hydroxide

Lebzy is out on Monday, is Tuesday morning OK?, say 10:30am.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory

P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Uy, Dairene (D.)
Sent: Friday, May 31, 2002 9:01 AM
To: Freeland, Mark (M.)
Subject: RE: Raman may detect hydroxide

My calendar is free all day Monday, Mark. Pick the best time for you.

Dairene

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, May 30, 2002 6:15 PM
To: Uy, Dairene (D.); Gonzalez, Lebzy (L.)
Subject: FW: Raman may detect hydroxide

Ladies,

I am not ignoring you, just struggling to keep head above water. I was out sick last week after the trip to Analytical Solutions. I would like to get with you on Monday next to discuss Raman and Al Hydroxide. What would be a good time of day for you?

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Hargas, Jon (.)
Sent: Tuesday, May 21, 2002 11:54 AM
To: Brady Davies (E-mail); 'Kyong Park (E-mail)' (E-mail); Freeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); Plante, Paul (P.G.)
Subject: Raman may detect hydroxide

Mark,

I've asked around and Raman may be able to detect aluminum hydroxide. Dairene is willing to look at a sample, and Lebzy is willing to microtome one to expose fresh area.

Every other analytical technique could have problems detecting hydrogen or hydroxides.

Roc thinks that the hydroxide would dehydrate in SEM or Auger, and that could be what causes the mudcracked texture. He suggested using an environmental SEM, one that can have a partial atmosphere of water and air in the sample chamber of around 2 torr. The only purpose of the experiment would be to see if the layer is continuous when observation starts with a partial pressure of water vapor in the sample chamber,

ER02-027-G 21017

and then mudcracks as the sample chamber is brought down to normal SEM operational pressures of around 10^{-6} torr.

Jon

From: Uy, Dalrene (D.)
Sent: Friday, May 31, 2002 2:38 PM
To: Freeland, Mark (M.)
Subject: RE: Raman may detect hydroxide

I can't make it till the afternoon. I have a long dentist appt. In the morning and then a lunchtime meeting after.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, May 31, 2002 2:34 PM
To: Uy, Dalrene (D.)
Cc: Gonzalez, Leby (L.)
Subject: RE: Raman may detect hydroxide

Leby is out on Monday, is Tuesday morning OK?, say 10:30am.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

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Sent: Friday, May 31, 2002 9:01 AM
To: Freeland, Mark (M.)
Subject: RE: Raman may detect hydroxide

My calendar is free all day Monday, Mark. Pick the best time for you.

Dalrene

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Thursday, May 30, 2002 6:15 PM
To: Uy, Dalrene (D.); Gonzalez, Leby (L.)
Subject: FW: Raman may detect hydroxide

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Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

--- Original Message ---

From: Hargis, Jon (.)
Sent: Tuesday, May 21, 2002 11:54 AM
To: Brady Davies (E-mail); 'Kyong Park (E-mail)' (E-mail); Freeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); Plante, Paul (P.G.)
Subject: Raman may detect hydroxide

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Jon

From: Uy, Dairene (D.)
Sent: Friday, May 31, 2002 9:01 AM
To: Freeland, Mark (M.)
Subject: RE: Raman may detect hydroxide

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Dairene

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Sent: Thursday, May 30, 2002 6:15 PM
To: Uy, Dairene (D.); Gonzalez, Lebyz (L.)
Subject: FW: Raman may detect hydroxide

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Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
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MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
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Sent: Tuesday, May 21, 2002 11:54 AM
To: Brady Davies (E-mail); 'Kyong Park (E-mail)' (E-mail); Freeland, Mark (M.); Gates, Freeman (F.C.); Maurer, James (J.B.); Piante, Paul (P.G.)
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Jon

From: Uy, Dairene (D.)
Sent: Wednesday, March 13, 2002 6:32 PM
To: Frøeland, Mark (M.)
Subject: more on UPAD

Mark,

I never looked at a bubble from Type 2 UPAD. I should look at one. If I also see nitrate in that bubble, maybe these bubbles are unrelated to sensor failure. Do we know if there are bubbles on fully functional sensors?

I'll talk to you more when you get back. I have a meeting at lunchtime and in the afternoon so I don't think I will go to your gathering, but if you want an elaboration of my previous email or want some "technical support" and none of us (steve, jon) are there, please do call and I will see if I can make it there.

Dairene

Dairene Uy
Physical and Environmental Sciences Department
Ford Research Laboratory
Mail Drop 3063/SRL, PO Box 2053
Dearborn, MI 48121

Phone: 313-584-1649
Fax: 313-322-7044
Email: duy@ford.com

From: Uy, Dairene (D.)
Sent: Wednesday, March 13, 2002 8:22 PM
To: Freeland, Mark (M.)
Subject: Raman spectra of potting gel/resin

Importance: High

Mark:

I just want to add to what I said about the Raman spectra of the resin (from the unused and the failed sensors):

- I just talked to Bill Weber and he told me that resins like these may be permeable to gases such as oxygen. In that case, maybe water or other things might pass through as well.

- While the Raman spectra of the resin would definitely show if we have nitrates, sulfates, soot, other organic compounds, it may not easily show water or H_3O^+ with the particular laser I used for the Raman work.

HOWEVER:

Plain water should not do any damage to the sensor. We cook in aluminum pots!! Gold and silicon are also very inert.

If an acid got through, such as nitric acid (HNO_3), I would not be able to detect the H_3O^+ (or H^+ if you prefer), but I should be able to detect the nitrate in the resin. But we know that the spectra of the resin contain no nitrate. Is there a possibility that the nitrate passes through, reacts with alumina or aluminum and collects as a bubble of aluminum nitrate????

I will do some experiments with nitric acid, and maybe with sulfuric as well..

Please pass on to the others as appropriate.

Dairene

Dairene Uy
Physical and Environmental Sciences Department
Ford Research Laboratory
Mail Drop 3083/SFL, PO Box 2053
Dearborn, MI 48121

Phone: 313-594-1649
Fax: 313-322-7044
Email: duy@ford.com

EQ82-827-G 21824

From: Uy, Dairene (D.)
Sent: Friday, March 01, 2002 6:08 PM
To: Freeland, Mark (M.)

Mark,

Try these websites, especially the first ones. I'm still thinking of who might be the best chemist to help you, but you might try the technical specialist website. Also, if you do have specific questions on the etch process, I can ask my friends directly. (There are actually 2 of them - the other one works for Applied Materials.)

Dairene

List of etchants: <http://argon.eecs.berkeley.edu:8080/labmanual/chap1/1.6.html>
The "home page" for the list (or everything you want to know about etching) -
<http://argon.eecs.berkeley.edu:8080/text/labmanual.html>

safety issues on HF etchants: <http://snf.stanford.edu/Safety/AboutHF.html>

metal etchants: <http://www.uoregon.edu/~hutchlab/semilab/etchants.pdf>

Dairene Uy
Physical and Environmental Sciences Department
Ford Research Laboratory
Mail Drop 3083/SRL, PO Box 2053
Dearborn, MI 48121

Phone: 313-594-1840
Fax: 313-322-7044
Email: duy@ford.com

From: Uy, Dairene (D.)
Sent: Friday, March 01, 2002 5:28 PM
To: Freeland, Mark (M.)
Subject: chemistry/etch expert

Mark,

When I browsing through the people profiles in the new home page of SRL, I came across Mark Sulek's profile. He has a BS in chemistry and currently works in THINK. However, he has the following publication:

M. Mikkor and M.S. Sulek, "Etch Rate of Plasma Silicon Nitride Films in Potassium Hydroxide Solutions and Their Use as a Passivation Layer on Structured Silicon Wafers." SR-90-18.

Sounds perfect, right? I hope he still remembers some of these things since this publication seems to be old..

Dairene

Dairene Uy
Physical and Environmental Sciences Department
Ford Research Laboratory
Mail Drop 3083/SRL, PO Box 2063
Dearborn, MI 48121

Phone: 313-694-1649
Fax: 313-322-7044
Email: duy@ford.com

From: Verner, Carol (C.J.)
Sent: Friday, November 01, 2002 2:09 PM
To: Freeland, Mark (M.); Bryant, Bruce (B.D.); Jensen, Ted (T.E.)
Subject: RE: Orders for Engineering Parts: Mazda Tribute PCMs

Bruce or Ted,

Thank you for any efforts you have tried to help me use the GPIRS system. Even if SRL orders parts using GPIRS you could not order this special PCM for my department here in POBE. I am told by my Powertrain Buyer that I must use a system other than GPIRS.

Regards,
Carol Verner

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Friday, November 01, 2002 10:06 AM
To: Bryant, Bruce (B.D.); Jensen, Ted (T.E.)
Cc: Verner, Carol (C.J.)
Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs
Importance: High

Bruce or Ted,

Do you know if we use the GPIRS system to order parts here at SRL, if so can you point me to someone who has access and knows how to do it.

Thanks

Regards

Mark Freeland

> 6-Sigma Black Belt
> Engine Research Department
> Ford Research Laboratory
> P.O. Box 2053
> MD 2629 - SRL - Room 1517
> Dearborn, MI 48121-2053 USA
email: mfreelal@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: Verner, Carol (C.J.)
Sent: Friday, November 01, 2002 9:33 AM
To: Freeland, Mark (M.)
Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs
Importance: High

Mark,

Do you know if Sci-Lab uses the GPIRS system to order parts. POEngineEngineering does not use GPIRS. North Penn will not ship the PCMs unless the order is in

EREZ-827-G 21937

GPIRS. I am thinking that if SCILAB uses GPIRS then I will try to find out if you may order them and uses our department number.

Carol

-----Original Message-----

From: O'Neill, Jim (J.D.)
Sent: Wednesday, October 30, 2002 4:53 PM
To: Verner, Carol (C.J.)
Cc: Maurer, James (J.B.)
Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs
Importance: High

Go for it. If you don't know how to execute a GPIRS order please call Joe Rey.

J. D. O'Neill
Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6839

-----Original Message-----

From: Rey, Joseph (J.A.) [mailto:jrey1@visteon.com]
Sent: Wednesday, October 30, 2002 3:21 PM
To: 'O'Neill, Jim'
Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs
Importance: High

Jim,

I'm sorry to hear that Carol has had such difficulty getting this orders processed. If Carol resubmits the order as a GPIRS order then North Penn will ship within 48 hours of receiving this order. See note below from Alan Trilling at North Penn. If you need any additional assistance don't hesitate to call.

Thanks,

> Joe Rey
Sales Manager
Powertrain Electronics
Visteon Corporation
Phone: 313-755-5295
Fax: 313-755-8075
Cell: 313-378-1817

-----Original Message-----

From: Trilling, Alan (A.S.)
Sent: Wednesday, October 30, 2002 7:03 AM
To: Rey, Joseph (J.A.); Dean, Breck (B.G.); D'Arcy, William (W.)
Cc: Ridgway, Robert (R.W.); Fad, Richard (R.M.)
Subject: RE: Orders for Engineering Parts: Mazda Tribute PCMs

Joe:

I recommend that Jim place a GPIRS order, in which NPEF could fill within 48 hours of receipt.

Regards,

Alan S. Trilling

Visteon - North Penn Electronics Facility, LLC
Material Planning Specialist
Phone #: (610) 584-7942
Fax #: (610) 584-7145
E-Mail: ATRILLIN@VISTEON.COM

-----Original Message-----

From: O'Neill, Jim (J.D.) [mailto:joneall@ford.com]
Sent: Friday, October 25, 2002 7:16 AM
To: 'cweed@visteon.com'
Cc: Verner, Carol (C.J.); Maurer, James (J.B.)
Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs

Craig - we could sure use your help on this one to forward it to the right Visteon contact. We need a specific PCM that we have been trying to order out of North Penn for months. This PCM is needed for a Mazda Tribute, a buy back vehicle. This vehicle is parked and until we get the PCM, it cannot be auctioned off. You can see from the string of notes below some of the details including the part number. Any help that you can provide would be appreciated. For a contact on our side please contact Carol Verner. Thanks.

J. D. O'Neill
Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6839

> -----Original Message-----

> From: Verner, Carol (C.J.)
> Sent: Tuesday, October 22, 2002 1:40 PM
> To: O'Neill, Jim (J.D.)
> Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs

>
> Jim,

>
> I spoke with Jim Simpson this morning and he said that we cannot use the FAB account to allow Ford of Taiwan to purchase a PCM for a buyback Mazda Tribute to replace the one sent to Mark Freeland. Jim recommended I ask you to send a note to Powertrain Purchasing Manager for assistance to get Visteon (North Penn) to ship the modules. The original RPS # 200200913 was placed back around the May 1, 2002 time frame. The buyer and I were not successful getting Visteon to ship so Kristen asked for assistance from her supervisor Tom Kotz prior to his retirement. As of this afternoon, the CMMS parts inventory system still shows that the modules have not been shipped. Taiwan is waiting for the replacement PCM in order to repair the vehicle for auction.

>
> Regards,
> Carol

> -----Original Message-----

> From: Kotz, Tom (T.S.)
> Sent: Wednesday, June 19, 2002 10:57 AM
> To: 'atrillin@visteon.com'
> Cc: Bullock, Kristen (K.); Verner, Carol (C.J.)
> Subject: Orders for Engineering Parts

EP02-027-G 21838

From: Verner, Carol (C.J.)
Sent: Friday, November 01, 2002 9:33 AM
To: Frelsand, Mark (M.)
Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs

Importance: High

Mark,

Do you know if Sci-Lab uses the GPIRS system to order parts. POEngineEngineering does not use GPIRS. North Penn will not ship the PCMs unless the order is in GPIRS. I am thinking that if SCILAB uses GPIRS then I will try to find out if you may order them and uses our department number.

Carol

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To: Verner, Carol (C.J.)
Cc: Maurer, James (J.B.)
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Importance: High

Go for it. If you don't know how to execute a GPIRS order please call Joe Rey.

J. D. O'Neill
Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6839

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Thanks,

> Joe Rey
Sales Manager
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Visteon Corporation
Phone: 313-755-5295
Fax: 313-755-8075
Cell: 313-378-1817

E902-027-G 21841

-----Original Message-----

From: Trilling, Alan (A.S.)
Sent: Wednesday, October 30, 2002 7:03 AM
To: Rey, Joseph (J.A.); Dean, Breck (B.G.); D'Arcy, William (W.)
Cc: Ridgway, Robert (R.W.); Pad, Richard (R.M.)
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Visteon - North Penn Electronics Facility, LLC
Material Planning Specialist
Phone #: (610) 584-7942
Fax #: (610) 584-7145
E-Mail: ATRILLIN@VISTRON.COM

-----Original Message-----

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Sent: Friday, October 25, 2002 7:16 AM
To: 'cweed@visteon.com'
Cc: Verner, Carol (C.J.); Maurer, James (J.B.)
Subject: FW: Orders for Engineering Parts: Mazda Tribute PCMs

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J. D. O'Neill
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> Regards,
> Carol

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> -----Original Message-----
> From: Kotz, Tom (T.S.)
> Sent: Wednesday, June 19, 2002 10:57 AM
> To: 'atrillin@visteon.com'
> Cc: Bullock, Kristen (K.); Verner, Carol (C.J.)
> Subject: Orders for Engineering Parts

>
> Alan,

>
> I have tried to reach you without success. I did receive your voice mail message to contact Joe Ray and have left several messages for him without success. I am told that you have an issue with the ZZ part numbers and are unwilling to ship our requirements because you do not have a print showing the ZZ part number.

>
> Below is a screen copy of a bulletin on the CMMS bulletin board dated 10/25/01 titled "PTO PrototypeSuppliers: Reminders/Hints" - it is republished approximately every 6 months - that instructs all suppliers how to handle the ZZ in the fourth position of the part number.

>
> Powertrain has been using CMMS for ordering prototype parts for nearly 3 years now and this is not a problem for our other suppliers. In fact, all of the other Visteon locations that supply prototypes, including Rawsonville and El Jarudo, do not seem to have any issue with this.

>
> May I politely request that you please ship us our requirements in line with your releases?

>
> This includes ; Y8LA-12A650-AA-ZZ 1 PC.
> 2L8A-12A650-AD-ZZ 2 PC.
> 2L8A-12A650-CD-ZZ 1 PC.

>
> If you have any questions or do not agree with these instructions, it is very important that you contact me immediately.

>
>
> CMMSAHOA BULLETIN BOARD TOPIC DETAIL 06/19/02
10:30:27

> ==> LOCATION CMMS
> TOPIC: PTO PROTOTYPE SUPPLIERS; REMINDERS/HINTS Delete Date: 11/24/03
> Func Cat: DDL Func Cat Desc: Direct Data Link for Suppliers
> Change Request/Problem Report Number: Sponsoring Organization:
> Updated By: SCHERER, RON Phone: (313) 32-36811

>
> Narrative

>
>
> 5. Releases for part numbers with 'ZZ' in the fourth position (control
> code) part number field are to be treated exactly as the Prefix-Base-
> Suffix part, including prints, purchase order, etc. These parts are
> ordered by Engineering and the 'ZZ' allows unique ship directions to
> suppliers, as well as internal inventory control.

v
v
v
v
v Tom Kotz
v Supervisor Powertrain PPM
v Suite 500
v Fairlane Plaza North
v Telephone (313) 206-4421 - Fax (313) 594-1337
v Mail to: tkotz@ford.com
v
v

From: Verner, Carol (C.J.)
Sent: Tuesday, October 28, 2002 10:19 AM
To: Freeland, Mark (M.)
Subject: Out of Office AutoReply: MPG Focus Testing

From: Verner, Carol (C.J.)
Sent: Tuesday, October 29, 2002 10:11 AM
To: Freeland, Mark (M.); Maurer, James (J.B.)
Cc: Gates, Freeman (F.C.)
Subject: RE: MPG Focus Testing

Mark,

I understand from Freeman that you want to take some photographs of the sensors. Let me know when you are available to take the photos so I can have the electricals done. I want to be with you when you take the photos. My calendar is open to take care of this as soon as possible.

Thanks
Carol

—Original Message—

From: Freeland, Mark (M.)
Sent: Friday, October 25, 2002 1:25 PM
To: Duncan, Jack (J.L.); Verner, Carol (C.J.); Maurer, James (J.B.)
Cc: Gates, Freeman (F.C.); McCoy, James (J.D.)
Subject: RE: MPG Focus Testing

Thanks Jack, I will follow up with Carol and Jim.

Carol & Jim, would you like SRL's assistance in examining the part for symptoms, both electrical and visual?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

—Original Message—

From: Duncan, Jack (J.L.)
Sent: Friday, October 25, 2002 1:14 PM
To: Freeland, Mark (M.); McCoy, James (J.D.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Cc: Verner, Carol (C.J.)
Subject: RE: MPG Focus Testing

FYI, the sensor was sent to Carol Verner Wednesday. Either she has it now, or it is sitting at POEE shipping & receiving.

Jack Duncan		jduncan1@ford.com
MI Proving Ground		
74240 Fisher Rd		(586) 75-28563 (w)
Romeo, MI 48065		(586) 75-28683 (f)

—Original Message—

From: Freeland, Mark (M.)
Sent: Friday, October 25, 2002 1:02 PM
To: McCoy, James (J.D.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Cc: Duncan, Jack (J.L.)
Subject: RE: MPG Focus Testing

If you would like the sensor looked at for failure mode and symptoms, I would be happy to offer the services of the lab. Just let me know when you would like us to look at it.

Did anyone figure out what the "noise" on the Iref signal is exactly? It should be predominantly about 8 mA with downward deviations to about 6 or 7 mA. There should be no positive deviations above 8 mA if everything is normal.

Other comment is, we don't know what happened between the readings which were taken at 1 minute intervals.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel: (313) 594-7645

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Thursday, October 24, 2002 1:53 PM
To: Maurer, James (J.B.); Freeland, Mark (M.); Gates, Freeman (F.C.)
Cc: Duncan, Jack (J.L.)
Subject: MPG Focus Testing

<< File: m8cyc4551.xls >>

Data sent by Jack Duncan on the Focus from MPG.

Chart shows VREF, DPFE out, and VREF current with reference to the DPFE failure.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jmccoyle@ford.com

ERR2-02T-G 21947

From: Verner, Carol (C.J.)
Sent: Friday, October 25, 2002 2:15 PM
To: Freeland, Mark (M.)
Subject: RE: MPG Focus Testing

Mark,

Jim is on vacation and will be back on Monday. I have not received the sample yet.

Carol

---Original Message---

From: Freeland, Mark (M.)
Sent: Friday, October 25, 2002 1:25 PM
To: Duncan, Jack (J.L.); Verner, Carol (C.J.); Maurer, James (J.B.)
Cc: Gates, Freeman (F.C.); McCoy, James (J.D.)
Subject: RE: MPG Focus Testing

Thanks Jack, I will follow up with Carol and Jim.

Carol & Jim, would you like SRL's assistance in examining the part for symptoms, both electrical and visual?

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

---Original Message---

From: Duncan, Jack (J.L.)
Sent: Friday, October 25, 2002 1:14 PM
To: Freeland, Mark (M.); McCoy, James (J.D.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Cc: Verner, Carol (C.J.)
Subject: RE: MPG Focus Testing

FYI, the sensor was sent to Carol Verner Wednesday. Either she has it now, or it is sitting at POEE shipping & receiving.

Jack Duncan		jduncan1@ford.com
MI Proving Ground		
74240 Fisher Rd		(586) 75-28563 (w)
Romeo, MI 48065		(586) 75-28683 (f)

---Original Message---

From: Freeland, Mark (M.)
Sent: Friday, October 25, 2002 1:02 PM
To: McCoy, James (J.D.); Maurer, James (J.B.); Gates, Freeman (F.C.)
Cc: Duncan, Jack (J.L.)

EA02-027-G 21048

Subject: RE: MPG Focus Testing

If you would like the sensor looked at for failure mode and symptoms, I would be happy to offer the services of the lab. Just let me know when you would like us to look at it.

Did anyone figure out what the "noise" on the Iref signal is exactly? It should be predominantly about 8 mA with downward deviations to about 6 or 7 mA. There should be no positive deviations above 8 mA if everything is normal.

Other comment is, we don't know what happened between the readings which were taken at 1 minute intervals.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: McCoy, James (J.D.)
Sent: Thursday, October 24, 2002 1:53 PM
To: Maurer, James (J.B.); Freeland, Mark (M.); Gates, Freeman (F.C.)
Cc: Duncan, Jack (J.L.)
Subject: MPG Focus Testing

<< File: m6cyc4551.xls >>

Data sent by Jack Duncan on the Focus from MPG.

Chart shows VREF, DPFE out, and VREF current with reference to the DPFE failure.

Regards,

Jim McCoy

Fuel Metering, Emissions & Ignition Systems Engineering
Hardware Control Interface Group
V-Engine Engineering
POEE - MD#69 - Rm. D142 - Cube DF186
Phone (313) 33-79690 / Fax (313) 39-04084
E-Mail: jimcooy1@ford.com

From: Verner, Carol (C.J.)
Sent: Friday, October 18, 2002 10:46 AM
To: Freeland, Mark (M.)
Cc: Maurer, James (J.B.)
Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Mark,

Is this PCM still operable to return to Taiwan. I have having little luck getting a new one sent to them.. Jim O' has offered to have them charge one to his FAB account however, Finance tells me this may not work because Ford of Taiwan may not be an authorized vendor (ie Staples, Office Depot,). If it is in a returnable condition, may I stop by and pick it up?

Carol

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, October 08, 2002 10:06 AM
To: Verner, Carol (C.J.); McCoy, James (J.D.)
Cc: Maurer, James (J.B.)
Subject: FW: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Carol & Jim

I still have the PCM which was returned from this vehicle. I was never able to test it as no one could not come up with a 2.0L Tribute. Would you like to have the PCM back, or can Jim McCoy use it?

Regards

Mark Freeland

> 6-Sigma Black Belt
> Engine Research Department
> Ford Research Laboratory
> P.O. Box 2053
> MD 2629 - SRL - Room 1517
> Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

-----Original Message-----

From: schen16 [mailto:schen16@ford.com]
Sent: Tuesday, October 08, 2002 4:37 AM
To: Verner, Carol (C.J.); Freeland, Mark (M.)
Subject: Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Carol:

We did not receive the PCM so far, can you advise when we can have your mail

for this PCM?

Regards,

----- Original Message -----

From: "Verner, Carol (C.J.)" <cverner@ford.com>
To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Freeland, Mark (M.)" <mfreelal@ford.com>
Sent: Monday, May 06, 2002 7:40 PM
Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

> Smith Chen,

>

> Thank you very much for the information on the PCM.

>

> Regards,

> Carol

>

> -----Original Message-----

> From: schen16 [mailto:schen16@ford.com]
> Sent: Monday, May 06, 2002 2:38 AM
> To: Verner, Carol (C.J.)
> Cc: Jao, Jack (J.); Chang, Chia Kai (C.); Kanai, Shinji (S.); Maurer, James (J.B.)
> Subject: Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

>

>

> Carol:

>

> I have asked the MC service people and confirmed the PCM of this vehicle, the PCM which I sent to Mark is the original one, no any record for replacement.

>

> Regards,

>

> S. N. Chen

> ----- Original Message -----

> From: "Verner, Carol (C.J.)" <cverner@ford.com>
> To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Verner, Carol (C.J.)" <cverner@ford.com>
> Cc: "Jao, Jack (J.)" <jjao@ford.com>; "Chang, Chia Kai (C.)" <cchang9@ford.com>; "Kanai, Shinji (S.)" <kanai.sh@sv.mazda.co.jp>; "Maurer, James (J.B.)" <jmaurer@ford.com>
> Sent: Tuesday, April 23, 2002 7:20 PM
> Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

>

>

> > Good Day S. N. Chen,

>

> > This information should be helpful for me to order a PCM. Can you or someone at Mazda let me know if the PCM you have is the original one or is it a replacement. The part number YL8F-12A650-TG suggests that it is a replacement. Please confirm.

>

>

> > Regards
> > Carol
> >
> > -----Original Message-----
> > From: schen16 [mailto:schen16@ford.com]
> > Sent: Sunday, April 21, 2002 11:29 PM
> > To: Verner, Carol (C.J.)
> > Cc: Jack Jao; Chang C.K; Kanai, Shinji (S.); Maurer, James (J.B.)
> > Subject: Re: U204 Stall Meeting (Field issue update: Engine stall ->
> No
> > restart (DPFE shortage))
> >
> >
> > Carol:
> >
> > It's nice to have your assistance, this vehicle is Mazda Tribute 2.0L
> > with
> > automatic transmission, I have got this PCM and attached the label of
> > this
> > PCM for your reference. I hope this can help you to order the PCM.
> >
> > Regards,
> >
> > S. N. Chen
> >
> >
> > ----- Original Message -----
> > From: "Verner, Carol (C.J.)" <cverner@ford.com>
> > To: "Chen, Smith S N (S.)" <schen16@ford.com>
> > Cc: "Maurer, James (J.B.)" <jmaurer@ford.com>; "Kanai, Shinji (S.)"
> > <kanai.sh@sv.mazda.co.jp>
> > Sent: Saturday, April 20, 2002 3:01 AM
> > Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> No
> > restart (DPFE shortage))
> >
> >
> > > Good Morning Mr. Chen,
> > >
> > > I am a member of a Team working on the dpfe sensor and stall issues
> > > regarding the Tribute/Escapes. Mark Freeland is a member of the
> > team
> > as
> > > well. I have the assignment to order a PCM to replace the one Mark
> > has
> > > asked you to send to him. Before I can order one I need some more
> > > information about the vehicle. Attached is a memo from Kanai-san in
> > > Kansas City which list the VIN and vehicle build date.
> > >
> > > I am attaching an excel spreadsheet from the Design Engineer at
> > Visteon
> > > with the part numbers for the all PCMs (EEC) across the world. You
> > will
> > > see that there are different part numbers depending on vehicle
> > content.
> > > I would like you help to make sure I have enough information to
> > order
> > > the correct PCM from Visteon. If I use the part number you sent
> > Mark
> > > Freeland (YL8Z-12A650-TG) it will take another 2 - 3 weeks to get

> the
> > > part. This is a Service part number and unfortunately they do not
> > stock
> > > the part. They would have to order it from Visteon as well. This
> is
> > > why I have decided to try and order from Visteon myself to save
> time.
> > >
> > > Based on all the information I have the vehicle is a Model Year 2002
> > > Mazda Tribute with a 2.0L Zetec engine with VIN provided by
> Kanai-san.
> > I
> > > need to know if I should buy PCM for a manual transmission (MTX,
> Part
> > > Number YL8F-12A650-PD) or automatic transmission (ATX, Part Number
> > > YL8A-12A650-AA) for the Taiwan market?
> > >
> > > If you have any questions about the information I am asking for,
> > please
> > > send back a note.
> > >
> > >
> > > Thank you
> > > Carol Verner
> > > FMEI Component Engineer
> > >
> > > -----Original Message-----
> > > From: Freeland, Mark (M.)
> > > Sent: Friday, April 19, 2002 12:36 PM
> > > To: Verner, Carol (C.J.)
> > > Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> > No
> > > restart (DPFK shortage))
> > >
> > >
> > >
> > > Regards
> > >
> > > Mark Freeland
> > >
> > > > 6-Sigma Black Belt
> > > > Engine Research Department
> > > > Ford Research Laboratory
> > > > P.O. Box 2053
> > > > MD 2629 - SRL - Room 1517
> > > > Dearborn, MI 48121-2053 USA
> > > email: mfreel1@ford.com
> > > Tel.: (313) 594-7645
> > >
> > >
> > > -----Original Message-----
> > > From: Shinji Kanai [mailto:kanai.sh@v.mazda.co.jp]
> > > Sent: Wednesday, April 10, 2002 6:59 PM
> > > To: 'Sanders, Muriel (M.S.)'; 'Altoonian, Don (D.J.)'; 'Badgley,
> Joel
> > > (J.K.)'; 'Bauer, Scott (S.C.)'; 'Bhojwani, Kamal (K.)'; 'Blackburn,
> > > Thomas (T.J.)'; 'Bogema, John (P.)'; 'Cary Powell'; 'Chick, John
> > > (J.)';
> > > 'Chih, Ming-Niu (M.N.)'; 'Chin, Darrel (D.)'; 'Corbett, Sandra

> > (S.M.);
 > > > 'Dalbo, Bob (R.J.)'; 'Dan Rothweiler'; 'De Pena, Juan (J.E.)';
 > 'Diez,
 > > > Timothy (T.P.)'; 'Fascatti, Bob (R.J.)'; 'Fournelle, Gilbert (G.)';
 > > > 'Freeland, Mark (M.)'; 'Giles, Stuart (S.)'; 'Gokhale, Renuka
 > (R.V.)';
 > > > 'Grimes, Jeff (J.R.)'; 'Hansen, George (G.C.)'; 'Herr, George
 > (G.J.)';
 > > > 'Hofman, Michael (M.V.)'; 'Holmes, Jeffrey (J.R.)'; 'Ichikawa,
 > > > Jiyunichiro (J.)'; 'Jensen, Ted (T.E.)'; 'John McDonald'; 'Jones,
 > > Andy';
 > > > 'Jordan, Donald (D.E.)'; 'Kanai, Shinji (S.)'; 'King, Robert
 > (R.F.)';
 > > > 'Klostermann, Eric (E.)'; 'Kosko, Jeff (J.R.)'; 'Kwon, Soon (S.K.)';
 > > > 'Liantico, Steven (S.)'; 'Linde, Peter (P.A.)'; 'Liu, Jane (J.)';
 > > > 'Lushrsen, Eric (E.A.)'; 'Marck, Edmond (E.C.)'; 'Matesa, John
 > (J.)';
 > > > 'Maurer, James (J.E.)'; 'Mazzella, Gary (G.R.)'; 'Mooney, Larry
 > (L.)';
 > > > 'Moorhouse, Scott (S.R.)'; 'Morgan, Tom'; 'Morishima, Shigeki (S.)';
 > > > 'Naveed Khan'; 'Nematollahi, Sonya (S.)'; 'Nikolai, Bernie';
 > > 'Noteboom,
 > > > Jim (J.E.)'; 'Ortman, James (J.W.)'; 'Powers, Ken (K.W.)'; 'Price,
 > > > Martin (M.)'; 'Raquepau, Alden (A.P.)'; 'Shah, Kiran (K.C.)';
 > > > 'Shiraishi, Masaru (M.)'; 'Stilgenbauer, Jeffrey (J.R.)'; 'Suarez,
 > > Rhae
 > > > (R.)'; 'Sullivan, Jamie (J.P.)'; 'Takasawa, Keith (K.D.)'; 'Takubo,
 > > > Hiroichi (H.)'; 'Vecchio, Anne Marie (A.)'; 'Wakenell, Ray (R.A.)';
 > > > 'Wettach, Bill (B.)'; 'Williams, Les (LHW.)'; 'Williamson, David
 > > > (D.E.)'; 'Yeung, Lem (.)'
 > > > Subject: U204 Stall Meeting (Field issue update: Engine stall -> No
 > > > restart (DPFE shortage))
 > > >
 > > >
 > > > I update Taiwan case as follows.
 > > >
 > > > VIN:5F2CU08B81KM71661
 > > > Prod. July,2001 at Hofu. Sale: Sep. 24,2001.
 > > >
 > > > Stall occurred on Mar. 01, 2002, 6997km.
 > > > Before the case, the car had no problem (back to the dealer for
 > > > 1000
 > > > &
 > > > 5000KM regular maintainence only.)
 > > > When the car picked back to the dealer:
 > > > 1. can't start again.
 > > > 2. can't communicate with WDS.
 > > > 3. replacing another PCM (from anothe same model
 > > > car),can't
 > > > communicate with WDS.
 > > > 4. with original PCM, communicate with WDS by using "
 > > > Manual
 > > > Entry" function of WDS.
 > > > 5. WDS showed DTC : B1681/B1401/U1262
 > > > 6. diagnose the DTCs with " Probe test" function of WDS,
 > > > everything seemed OK.
 > > > 7. because the connector of DPFE was disconnected in
 > > > "Probe
 > > > test", the technician tried to
 > > > start again after the test, the car started, then

> found

> > > the DPFE was disconnected.

> > > 8. try several times, all the same, when the connector

> was

> > > connected, can't start. when disconnecting,

> > > can start again.

> > > 9. change another new DPFE, the problem was disappeared.

> > >

> > > Shinji Kanai

> > > -----Original Message-----

> > > From:

> > > Sent: Monday, April 08, 2002 9:16 PM

> > > Subject: U204 Stall Meeting (Field issue update: Engine stall -> No

> > > restart (DPFE shortage))

> > >

> > > I update concern which I reported Stall meeting in last week. Failed

> > > DPFE sensors were scrapped at dealers in all cases.

> > >

> > > CASE 1 (Japan)

> > > VIN: EPEW-101286, Hofu build: 2000/12/13, Retail 2000/12/26

> > > (1) First repair 2001/4/9 4,893km

> > > DTC P0401 and P1408 illuminated. DPFE output Voltage was 0.122V

> > > (standard 0.95 - 1.05V).

> > > Replace DPFE sensor with new one. Problem was solved.

> > > (2) Second repair 2001/8/20 11,084km

> > > Engine stall during normal operating temp. Starter was clanking but

> > > engine did not start.

> > > WDS tester could not communicate with PCM. BUS(-) terminal voltage

> > > showed 1.9V (standard 4.5V) causing NO communication.

> > > Vref was 2.0V (standard 4.0 - 6.0V). When DPFE sensor connector was

> > > disconnected, Vref increased to 5V.

> > > Same time Click sound was observed from Fuel pump relay and fuel

> > > pressure was increased to normal range.

> > > Also BUS(-) terminal voltage was returned 4.5V at same time, and WDS

> > > can

> > > communicate with PCM.

> > > Replace DPFE sensor with new one. Problem was solved.

> > > <<<DPFE sensor lot number is unknown. According to second repair

> date,

> > > it might be pre CM part.>>>

> > >

> > > CASE 2 (Taiwan)

> > > We are contacting Taiwan continuously.

> > >

> > > CASE 3 (Australia)

> > > Attachment is the information from Australia (VIN:

> JMCYU06BY11100053,

> > > Hofu build 2001/01/09).

> > > In addition to this report;

> > > (1) Vref was 2.1 V (standard 4.0 - 6.0V) during NO start condition.

> > > (2) Vref returned standard value and engine started immediately

> after

> > > disconnect DPFE connector.

> > > (3) In this DPFE internal shortage case, WDS cannot communicate to

> > > PCM.

> > > Replace DPFE sensor with new one. Problem was solved.

> > > <<<DPFE sensor lot number is unknown. According to build date, it

> > > might

> > > be pre CM part.>>>

> > >
> > >
> > > Shinji Kanai
> > > Manager, Tribute Plant QA
> > > Mazda North American Operations
> > >
> > > Ford Kansas City Assembly Plant
> > > Plant Vehicle Team
> > > 8121 N.E. Hwy. 69, Claycomo, MO 64119 USA
> > > Tel: 816-459-1623/ Fax: -1726/ e-mail: kanai.sh@sv.mazda.co.jp
> > > Local Text Pager: 9135677156@alphapage.airtouch.com
> > >
> > >

From: Verner, Carol (C.J.)
Sent: Tuesday, October 08, 2002 11:47 AM
To: Chen, Smith S N (S.); Freeland, Mark (M.)
Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Good Morning Smith Chen,

I am very, very sorry I have not been able to send you a PCM by now. The vendor, Visteon will not ship the PCMs to us because of an administrative issue. As a result, I have asked my management if it is ok to 1) have you by a PCM and charge it back to our department, or 2) we buy one at a dealership here and send it to you. On this one I am not sure if it will have the correct calibration programmed into it.

Hopefully I will have an answer from management by Friday.
Carol

-----Original Message-----

From: schen16 [mailto:schen16@ford.com]
Sent: Tuesday, October 08, 2002 4:37 AM
To: Verner, Carol (C.J.); Freeland, Mark (M.)
Subject: Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Carol:

We did not receive the PCM so far, can you advise when we can have your mail for this PCM?

Regards,

----- Original Message -----

From: "Verner, Carol (C.J.)" <cverner@ford.com>
To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Freeland, Mark (M.)" <mfreel1@ford.com>
Sent: Monday, May 06, 2002 7:40 PM
Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

> Smith Chen,

>

> Thank you very much for the information on the PCM.

>

> Regards,

> Carol

>

> -----Original Message-----

> **From:** schen16 [mailto:schen16@ford.com]
> **Sent:** Monday, May 06, 2002 2:38 AM
> **To:** Verner, Carol (C.J.)
> **Cc:** Jao, Jack (J.); Chang, Chia Kai (C.); Kanai, Shinji (S.); Maurer, James (J.B.)
> **Subject:** Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

>

>

ERR2-027-0 21955

> Carol:

>
> I have asked the MC service people and confirmed the PCM of this
> vehicle,
> the PCM which I sent to Mark is the original one, no any record for
> replacement.

>
> Regards,

>
> S. N. Chen

> ----- Original Message -----

> From: "Verner, Carol (C.J.)" <cverner@ford.com>
> To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Verner, Carol (C.J.)"
> <cverner@ford.com>
> Cc: "Jao, Jack (J.)" <jjao@ford.com>; "Chang, Chia Kai (C.)"
> <cchang9@ford.com>; "Kanai, Shinji (S.)" <kanai.sh@sv.mazda.co.jp>;
> "Maurer,
> James (J.B.)" <jmaurer@ford.com>
> Sent: Tuesday, April 23, 2002 7:20 PM
> Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No
> restart (DPFE shortage))

>
>
> > Good Day S. N. Chen,

> >
> > This information should be helpful for me to order a PCM. Can you or
> > someone at Mazda let me know if the PCM you have is the original one or
> > is it a replacement. The part number YL8F-12A650-TG suggests that it
> > is
> > a replacement. Please confirm.

> >
> > Regards
> > Carol

> >
> > -----Original Message-----

> > From: schen16 [mailto:schen16@ford.com]
> > Sent: Sunday, April 21, 2002 11:29 PM
> > To: Verner, Carol (C.J.)
> > Cc: Jack Jao; Chang C.K; Kanai, Shinji (S.); Maurer, James (J.B.)
> > Subject: Re: U204 Stall Meeting (Field issue update: Engine stall ->
> > No
> > restart (DPFE shortage))

> >
> >
> > Carol:

> >
> > It's nice to have your assistance, this vehicle is Mazda Tribute 2.0L
> > with
> > automatic transmission, I have got this PCM and attached the label of
> > this
> > PCM for your reference. I hope this can help you to order the PCM.

> >
> > Regards,

> >
> > S. N. Chen

> >
> > ----- Original Message -----

> > From: "Verner, Carol (C.J.)" <cverner@ford.com>
> > To: "Chen, Smith S N (S.)" <schen16@ford.com>

> > Cc: "Maurer, James (J.B.)" <jmaurer@ford.com>; "Kanai, Shinji (S.)"
> > <kanai.sh@sv.mazda.co.jp>
> > Sent: Saturday, April 20, 2002 3:01 AM
> > Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> No
> > restart (DPFE shortage))
> >
> >
> > > Good Morning Mr. Chen,
> > >
> > > I am a member of a Team working on the dpfe sensor and stall issues
> > > regarding the Tribute/Escapes. Mark Freeland is a member of the
> > team
> > as
> > > well. I have the assignment to order a PCM to replace the one Mark
> > has
> > > asked you to send to him. Before I can order one I need some more
> > > information about the vehicle. Attached is a memo from Kanai-san in
> > > Kansas City which list the VIN and vehicle build date.
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> > > I am attaching an excel spreadsheet from the Design Engineer at
> > Visteon
> > > with the part numbers for the all PCMs (EBC) across the world. You
> > will
> > > see that there are different part numbers depending on vehicle
> > content.
> > > I would like you help to make sure I have enough information to
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> > > Freeland (YL8Z-12A650-TG) it will take another 2 - 3 weeks to get
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> > > part. This is a Service part number and unfortunately they do not
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> > > the part. They would have to order it from Visteon as well. This
> > is
> > > why I have decided to try and order from Visteon myself to save
> > time.
> > >
> > > Based on all the information I have the vehicle is a Model Year 2002
> > > Mazda Tribute with a 2.0L Zetec engine with VIN provided by
> > Kanai-san.
> > I
> > > need to know if I should buy PCM for a manual transmission (MTX,
> > Part
> > > Number YL8F-12A650-PD) or automatic transmission (ATX, Part Number
> > > YL8A-12A650-AA) for the Taiwan market?
> > >
> > > If you have any questions about the information I am asking for,
> > please
> > > send back a note.
> > >
> > >
> > > Thank you
> > > Carol Verner
> > > FMEI Component Engineer
> > >
> > > -----Original Message-----
> > > From: Freeland, Mark (M.)
> > > Sent: Friday, April 19, 2002 12:36 PM

> > > To: Verner, Carol (C.J.)
> > > Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> > > No
> > > restart (DPFE shortage))
> > >
> > >
> > >
> > > Regards
> > >
> > > Mark Freeland
> > >
> > > > 6-Sigma Black Belt
> > > > Engine Research Department
> > > > Ford Research Laboratory
> > > > P.O. Box 2053
> > > > MD 2629 - SRL - Room 1517
> > > > Dearborn, MI 48121-2053 USA
> > > email: mfreelal@ford.com
> > > Tel.: (313) 594-7645
> > >
> > >
> > > -----Original Message-----
> > > From: Shinji Kanai [mailto:kanai.sh@sv.mazda.co.jp]
> > > Sent: Wednesday, April 10, 2002 6:59 PM
> > > To: 'Sanders, Muriel (M.S.)'; 'Altoonian, Don (D.J.)'; 'Badgley,
> > > Joel
> > > (J.K.)'; 'Bauer, Scott (S.C.)'; 'Bhojwani, Kamal (K.)'; 'Blackburn,
> > > Thomas (T.J.)'; 'Bogema, John (P.)'; 'Cary Powell'; 'Chick, John
> > > (J.)';
> > > 'Chih, Ming-Niu (M.N.)'; 'Chin, Darrel (D.)'; 'Corbett, Sandra
> > > (S.M.)';
> > > 'Dalbo, Bob (R.J.)'; 'Dan Rothweiler'; 'De Pena, Juan (J.E.)';
> > > 'Diez,
> > > Timothy (T.P.)'; 'Fascetti, Bob (R.J.)'; 'Fournelle, Gilbert (G.)';
> > > 'Freeland, Mark (M.)'; 'Giles, Stuart (S.)'; 'Gokhale, Renuka
> > > (R.V.)';
> > > 'Grimes, Jeff (J.R.)'; 'Hansen, George (G.C.)'; 'Herr, George
> > > (G.J.)';
> > > 'Hofman, Michael (M.V.)'; 'Holmes, Jeffrey (J.R.)'; 'Ichikawa,
> > > Jiyunichiro (J.)'; 'Jensen, Ted (T.E.)'; 'John McDonald'; 'Jones,
> > > Andy';
> > > 'Jordan, Donald (D.E.)'; 'Kanai, Shinji (S.)'; 'King, Robert
> > > (R.F.)';
> > > 'Klostermann, Eric (E.)'; 'Kosko, Jeff (J.R.)'; 'Kwon, Soon (S.K.)';
> > > 'Limtiaco, Steven (S.)'; 'Linde, Peter (P.A.)'; 'Liu, Jane (J.)';
> > > 'Luehrsén, Eric (E.A.)'; 'Marck, Edmond (E.C.)'; 'Matesa, John
> > > (J.)';
> > > 'Maurer, James (J.B.)'; 'Mazzella, Gary (G.R.)'; 'Mooney, Larry
> > > (L.)';
> > > 'Moorhouse, Scott (S.R.)'; 'Morgan, Tom'; 'Morishima, Shigeki (S.)';
> > > 'Naveed Khan'; 'Nematollahi, Sonya (S.)'; 'Nikolai, Bernie';
> > > 'Noteboom,
> > > Jim (J.E.)'; 'Ortman, James (J.W.)'; 'Powers, Ken (K.W.)'; 'Price,
> > > Martin (M.)'; 'Raquepau, Alden (A.P.)'; 'Shah, Kiran (K.C.)';
> > > 'Shiraishi, Masaru (M.)'; 'Stilgenbauer, Jeffrey (J.R.)'; 'Suarez,
> > > Rhae
> > > (R.)'; 'Sullivan, Jamie (J.P.)'; 'Takasawa, Keith (K.D.)'; 'Takubo,
> > > Hiroichi (H.)'; 'Vecchio, Anne Marie (A.)'; 'Wakenell, Ray (R.A.)';
> > > 'Wettach, Bill (B.)'; 'Williams, Les (LHW.)'; 'Williamson, David

>>> {D.E.}'; 'Yeung, Lem (.)'
>>> Subject: U204 Stall Meeting (Field issue update: Engine stall -> No
>>> restart (DPFE shortage))
>>>
>>> I update Taiwan case as follows.
>>>
>>> VIN:SF2CU08B81KM71661
>>> Prod. July,2001 at Hofu. Sale: Sep. 24,2001.
>>>
>>> Stall occurred on Mar. 01, 2002, 6997km.
>>> Before the case, the car had no problem (back to the dealer for
> 1000
>>> &
>>> 5000KM regular maintainence only.)
>>> When the car picked back to the dealer:
>>> 1. can't start again.
>>> 2. can't communicate with WDS.
>>> 3. replacing another PCM (from anothe same model
>> car), can't
>>> communicate with WDS.
>>> 4. with original PCM, communicate with WDS by using "
>> Manual
>>> Entry" function of WDS.
>>> 5. WDS showed DTC : B1681/B1401/U1262
>>> 6. diagnose the DTCs with " Probe test" function of WDS,
>>> everything seemed OK.
>>> 7. because the connector of DPFE was disconnected in
>> "Probe
>>> test", the technician tried to
>>> start again after the test, the car started, then
>> found
>>> the DPFE was disconnected.
>>> 8. try several times, all the same, when the connector
>> was
>>> connected, can't start. when disconnecting,
>>> can start again.
>>> 9. change another new DPFE, the problem was disappeared.
>>>
>>> Shinji Kanai
>>> -----Original Message-----
>>> From:
>>> Sent: Monday, April 08, 2002 9:16 PM
>>> Subject: U204 Stall Meeting (Field issue update: Engine stall -> No
>>> restart (DPFE shortage))
>>>
>>>
>>> I update concern which I reported Stall meeting in last week. Failed
>>> DPFE sensors were scrapped at dealers in all cases.
>>>
>>> CASE 1 (Japan)
>>> VIN: EPEW-101286, Hofu build: 2000/12/13, Retail 2000/12/26
>>> (1) First repair 2001/4/9 4,893km
>>> DTC P0401 and P1408 illuminated. DPFE output Voltage was 0.122V
>>> (standard 0.95 - 1.05V).
>>> Replace DPFE sensor with new one. Problem was solved.
>>> (2) Second repair 2001/8/20 11,084km
>>> Engine stall during normal operating temp. Starter was clanking but
>>> engine did not start.
>>> WDS tester could not communicate with PCM. BUS(-) terminal voltage

> > > showed 1.9V (standard 4.5V) causing NO communication.
> > > Vref was 2.0V (standard 4.0 - 6.0V). When DPFE sensor connector was
> > > disconnected, Vref increased to 5V.
> > > Same time Click sound was observed from Fuel pump relay and fuel
> > > pressure was increased to normal range.
> > > Also BUS(-) terminal voltage was returned 4.5V at same time, and WDS
> > can
> > > communicate with PCM.
> > > Replace DPFE sensor with new one. Problem was solved.
> > > <<<DPFE sensor lot number is unknown. According to second repair
> date,
> > > it might be pre CM part.>>>
> > >
> > > CASE 2 (Taiwan)
> > > We are contacting Taiwan continuously.
> > >
> > > CASE 3 (Australia)
> > > Attachment is the information from Australia (VIN:
> JMOYU06BY11100053,
> > > Hofu build 2001/01/09).
> > > In addition to this report;
> > > (1) Vref was 2.1 V (standard 4.0 - 6.0V) during NO start condition.
> > > (2) Vref returned standard value and engine started immediately
> after
> > > disconnect DPFE connector.
> > > (3) In this DPFE internal shortage case, WDS cannot communicate to
> > PCM.
> > > Replace DPFE sensor with new one. Problem was solved.
> > > <<<DPFE sensor lot number is unknown. According to build date, it
> > might
> > > be pre CM part.>>>
> > >
> > >
> > > Shinji Kanai
> > > Manager, Tribute Plant QA
> > > Mazda North American Operations
> > >
> > > Ford Kansas City Assembly Plant
> > > Plant Vehicle Team
> > > 8121 N.E. Hwy. 69, Claycomo, MO 64119 USA
> > > Tel: 816-459-1623/ Fax: -1726/ e-mail: kanai.sh@sv.mazda.co.jp
> > > Local Text Pager: 9135677156@alphapage.airtouch.com
> > >
> > >

From: Verner, Carol (C.J.)
Sent: Tuesday, October 08, 2002 10:08 AM
To: Maurer, James (J.B.)
Cc: Freeland, Mark (M.)
Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Jim,

Visteon has not shipped the PCMs I ordered back on 5/13/02. There were a lot of emails back and forth between Purchasing and Visteon to get the parts shipped but Visteon refused based on the part number having information in it (ZZ on the end of the order) which violated an 'ISO' guideline. My guess is for some reason they are not interested in shipping them. Can we get Jim's approval to buy a PCM at the dealership?

Carol

-----Original Message-----

From: schen16 [mailto:schen16@ford.com]
Sent: Tuesday, October 08, 2002 4:37 AM
To: Verner, Carol (C.J.); Freeland, Mark (M.)
Subject: Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

Carol:

We did not receive the PCM so far, can you advise when we can have your mail for this PCM?

Regards,

----- Original Message -----

From: "Verner, Carol (C.J.)" <cverner@ford.com>
To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Freeland, Mark (M.)" <mfreelal@ford.com>
Sent: Monday, May 06, 2002 7:40 PM
Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

> Smith Chen,

>

> Thank you very much for the information on the PCM.

>

> Regards,

> Carol

>

> -----Original Message-----

> **From:** schen16 [mailto:schen16@ford.com]
> **Sent:** Monday, May 06, 2002 2:38 AM
> **To:** Verner, Carol (C.J.)
> **Cc:** Jao, Jack (J.); Chang, Chia Kai (C.); Kanai, Shinji (S.); Maurer, James (J.B.)
> **Subject:** Re: U204 Stall Meeting (Field issue update: Engine stall -> No restart (DPFE shortage))

>

>

EM02-027-G 21971

> Carol:
>
> I have asked the MC service people and confirmed the PCM of this
> vehicle,
> the PCM which I sent to Mark is the original one, no any record for
> replacement.
>
> Regards,
>
> S. N. Chen
> ----- Original Message -----
> From: "Verner, Carol (C.J.)" <cverner@ford.com>
> To: "Chen, Smith S N (S.)" <schen16@ford.com>; "Verner, Carol (C.J.)"
> <cverner@ford.com>
> Cc: "Jao, Jack (J.)" <jjao@ford.com>; "Chang, Chia Kai (C.)"
> <cchang9@ford.com>; "Kanai, Shinji (S.)" <kanai.sh@sv.mazda.co.jp>;
> "Maurer,
> James (J.B.)" <jmaurer@ford.com>
> Sent: Tuesday, April 23, 2002 7:20 PM
> Subject: RE: U204 Stall Meeting (Field issue update: Engine stall -> No
> restart (DPFE shortage))
>
>
> > Good Day S. N. Chen,
> >
> > This information should be helpful for me to order a PCM. Can you or
> > someone at Mazda let me know if the PCM you have is the original one or
> > is it a replacement. The part number YLBF-12A650-TG suggests that it
> > is
> > a replacement. Please confirm.
> >
> > Regards
> > Carol
> >
> > -----Original Message-----
> > From: schen16 [mailto:schen16@ford.com]
> > Sent: Sunday, April 21, 2002 11:29 PM
> > To: Verner, Carol (C.J.)
> > Cc: Jack Jao; Chang C.K; Kanai, Shinji (S.); Maurer, James (J.B.)
> > Subject: Re: U204 Stall Meeting (Field issue update: Engine stall ->
> > No
> > restart (DPFE shortage))
> >
> >
> > Carol:
> >
> > It's nice to have your assistance, this vehicle is Mazda Tribute 2.0L
> > with
> > automatic transmission, I have got this PCM and attached the label of
> > this
> > PCM for your reference. I hope this can help you to order the PCM.
> >
> > Regards,
> >
> > S. N. Chen
> >
> >
> > ----- Original Message -----
> > From: "Verner, Carol (C.J.)" <cverner@ford.com>
> > To: "Chen, Smith S N (S.)" <schen16@ford.com>

> > Cc: "Maurer, James (J.B.)" <jmaurer@ford.com>; "Kanai, Shinji (S.)"
> > <kanai.sh@sv.mazda.co.jp>
> > Sent: Saturday, April 20, 2002 3:01 AM
> > Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> No
> > restart (DPFE shortage))
> >
> >
> > > Good Morning Mr. Chen,
> > >
> > > I am a member of a Team working on the dpfe sensor and stall issues
> > > regarding the Tribute/Escapes. Mark Freeland is a member of the
> team
> > as
> > > well. I have the assignment to order a PCM to replace the one Mark
> has
> > > asked you to send to him. Before I can order one I need some more
> > > information about the vehicle. Attached is a memo from Kanai-san in
> > > Kansas City which list the VIN and vehicle build date.
> > >
> > > I am attaching an excel spreadsheet from the Design Engineer at
> > Visteon
> > > with the part numbers for the all PCMs (EBC) across the world. You
> > will
> > > see that there are different part numbers depending on vehicle
> > content.
> > > I would like you help to make sure I have enough information to
> order
> > > the correct PCM from Visteon. If I use the part number you sent
> Mark
> > > Freeland (YL8Z-12A650-TG) it will take another 2 - 3 weeks to get
> the
> > > part. This is a Service part number and unfortunately they do not
> > stock
> > > the part. They would have to order it from Visteon as well. This
> is
> > > why I have decided to try and order from Visteon myself to save
> time.
> > >
> > > Based on all the information I have the vehicle is a Model Year 2002
> > > Mazda Tribute with a 2.0L Zetec engine with VIN provided by
> Kanai-san.
> > I
> > > need to know if I should buy PCM for a manual transmission (MTX,
> Part
> > > Number YL8F-12A650-PD) or automatic transmission (ATX, Part Number
> > > YL8A-12A650-AA) for the Taiwan market?
> > >
> > > If you have any questions about the information I am asking for,
> > please
> > > send back a note.
> > >
> > >
> > > Thank you
> > > Carol Verner
> > > FMEI Component Engineer
> > >
> > > -----Original Message-----
> > > From: Freeland, Mark (M.)
> > > Sent: Friday, April 19, 2002 12:36 PM

> > > To: Verner, Carol (C.J.)
> > > Subject: FW: U204 Stall Meeting (Field issue update: Engine stall ->
> > No

> > > restart (DPFE shortage))

> > > Regards

> > > Mark Freeland

> > > > 6-Sigma Black Belt
> > > > Engine Research Department
> > > > Ford Research Laboratory
> > > > P.O. Box 2053
> > > > MD 2629 - SRL - Room 1517
> > > > Dearborn, MI 48121-2053 USA
> > > email: mfreelal@ford.com
> > > Tel.: (313) 594-7645

> > > -----Original Message-----

> > > From: Shinji Kanai [mailto:kanai.sb@sv.mazda.co.jp]

> > > Sent: Wednesday, April 10, 2002 6:59 PM

> > > To: 'Sanders, Muriel (M.S.)'; 'Altoonian, Don (D.J.)'; 'Badgley,
> Joel

> > > (J.K.)'; 'Bauer, Scott (S.C.)'; 'Bhojwani, Kamal (K.)'; 'Blackburn,
> > > Thomas (T.J.)'; 'Bogema, John (P.)'; 'Cary Powell'; 'Chick, John
> > > (J.)';

> > > 'Chih, Ming-Niu (M.N.)'; 'Chin, Darrel (D.)'; 'Corbett, Sandra
> > > (S.M.)';

> > > 'Dalbo, Bob (R.J.)'; 'Dan Rothweiler'; 'De Pena, Juan (J.E.)';
> > > 'Diez,

> > > Timothy (T.P.)'; 'Fascetti, Bob (R.J.)'; 'Fournelle, Gilbert (G.)';
> > > 'Freeland, Mark (M.)'; 'Giles, Stuart (S.)'; 'Gokhale, Renuka

> > > (R.V.)';
> > > 'Grimes, Jeff (J.R.)'; 'Hansen, George (G.C.)'; 'Herr, George
> > > (G.J.)';

> > > 'Hofman, Michael (M.V.)'; 'Holmes, Jeffrey (J.R.)'; 'Ichikawa,
> > > Jiyunichiro (J.)'; 'Jensen, Ted (T.E.)'; 'John McDonald'; 'Jones,
> > > Andy';

> > > 'Jordan, Donald (D.E.)'; 'Kanai, Shinji (S.)'; 'King, Robert
> > > (R.F.)';

> > > 'Klostermann, Eric (E.)'; 'Kosko, Jeff (J.R.)'; 'Kwon, Soon (S.K.)';
> > > 'Limtiaco, Steven (S.)'; 'Linde, Peter (P.A.)'; 'Liu, Jane (J.)';

> > > 'Luehrsén, Eric (E.A.)'; 'Marck, Edmond (E.C.)'; 'Matesa, John
> > > (J.)';

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> > > 'Naveed Khan'; 'Nematollahi, Sonya (S.)'; 'Nikolai, Bernie';

> > > 'Noteboom,

> > > Jim (J.E.)'; 'Ortman, James (J.W.)'; 'Powers, Ken (K.W.)'; 'Price,
> > > Martin (M.)'; 'Raquelpau, Alden (A.P.)'; 'Shah, Kiran (K.C.)';

> > > 'Shiraishi, Masaru (M.)'; 'Stilgenbauer, Jeffrey (J.R.)'; 'Suarez,
> > > Rhae

> > > (R.)'; 'Sullivan, Jamie (J.P.)'; 'Takasawa, Keith (K.D.)'; 'Takubo,
> > > Hiroichi (H.)'; 'Vecchio, Anne Marie (A.)'; 'Wakenell, Ray (R.A.)';

> > > 'Wettach, Bill (B.)'; 'Williams, Les (LHW.)'; 'Williamson, David

> > > (D.E.)'; 'Yeung, Lem (.)'
> > > Subject: U204 Stall Meeting (Field issue update: Engine stall -> No
> > > restart (DPFE shortage))
> > >
> > >
> > > I update Taiwan case as follows.
> > >
> > > VIN:5F2CU08B81KM71661
> > > Prod. July,2001 at Hofu. Sale: Sep. 24,2001.
> > >
> > > Stall occurred on Mar. 01, 2002, 6997km.
> > > Before the case, the car had no problem (back to the dealer for
> 1000
> > >
> > > 5000KM regular maintainence only.)
> > > When the car picked back to the dealer:
> > > 1. can't start again.
> > > 2. can't communicate with WDS.
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> > car), can't
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> > > 4. with original PCM, communicate with WDS by using "
> > Manual
> > > Entry" function of WDS.
> > > 5. WDS showed DTC : B1681/B1401/U1262
> > > 6. diagnoze the DTCs with " Probe test" function of WDS,
> > > everything seemed OK.
> > > 7. because the connector of DPFE was disconnected in
> "Probe
> > > test", the technician tried to
> > > start again after the test, the car started, then
> found
> > > the DPFE was disconnected.
> > > 8. try several times, all the same, when the connector
> was
> > > connected, can't start. when disconnecting,
> > > can start again.
> > > 9. change another new DPFE, the problem was disappeared.
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> > > Shinji Kanai
> > > -----Original Message-----
> > > From:
> > > Sent: Monday, April 08, 2002 9:16 PM
> > > Subject: U204 Stall Meeting (Field issue update: Engine stall -> No
> > > restart (DPFE shortage))
> > >
> > >
> > > I update concern which I reported Stall meeting in last week. Failed
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> > >
> > > CASE 1 (Japan)
> > > VIN: EPEW-101286, Hofu build: 2000/12/13, Retail 2000/12/26
> > > (1) First repair 2001/4/9 4,893km
> > > DTC P0401 and P1408 illuminated. DPFE output Voltage was 0.122V
> > > (standard 0.95 - 1.05V).
> > > Replace DPFE sensor with new one. Problem was solved.
> > > (2) Second repair 2001/8/20 11,084km
> > > Engine stall during normal operating temp. Starter was clanking but
> > > engine did not start.
> > > WDS tester could not communicate with PCM. BUS(-) terminal voltage

> > > showed 1.9V (standard 4.5V) causing NO communication.
> > > Vref was 2.0V (standard 4.0 - 6.0V). When DPFE sensor connector was
> > > disconnected, Vref increased to 5V.
> > > Same time Click sound was observed from Fuel pump relay and fuel
> > > pressure was increased to normal range.
> > > Also BUS(-) terminal voltage was returned 4.5V at same time, and WDS
> > can
> > > communicate with PCM.
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> > > <<<DPFE sensor lot number is unknown. According to second repair
> date,
> > > it might be pre CM part.>>>
> > >
> > > CASE 2 (Taiwan)
> > > We are contacting Taiwan continuously.
> > >
> > > CASE 3 (Australia)
> > > Attachment is the information from Australia (VIN:
> JMOYU06BY11100053,
> > > Hofu build 2001/01/09).
> > > In addition to this report;
> > > (1) Vref was 2.1 V (standard 4.0 - 6.0V) during NO start condition.
> > > (2) Vref returned standard value and engine started immediately
> after
> > > disconnect DPFE connector.
> > > (3) In this DPFE internal shortage case, WDS cannot communicate to
> > PCM.
> > > Replace DPFE sensor with new one. Problem was solved.
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> > might
> > > be pre CM part.>>>
> > >
> > >
> > > Shinji Kanai
> > > Manager, Tribute Plant QA
> > > Mazda North American Operations
> > >
> > > Ford Kansas City Assembly Plant
> > > Plant Vehicle Team
> > > 8121 N.E. Hwy. 69, Claycomo, MO 64119 USA
> > > Tel: 816-459-1623/ Fax: -1726/ e-mail: kanai.sh@ev.mazda.co.jp
> > > Local Text Pager: 9135677156@alphapage.airtouch.com
> > >
> > >

From: Verner, Carol (C.J.)
Sent: Friday, September 20, 2002 10:10 AM
To: O'Neall, Jim (J.D.)
Cc: Freeland, Mark (M.)
Subject: RE: Windstar Sensor #88

Mark,

See comments in blue below.

—Original Message—

From: O'Neall, Jim (J.D.)
Sent: Thursday, September 19, 2002 3:12 PM
To: Verner, Carol (C.J.)
Cc: Freeland, Mark (M.)
Subject: FW: Windstar Sensor #99

Please provide the info requested by Mark. This is one of two sensors that failed (low I believe) from the Vegas fleet that you inspected shipped back by Kyong.

J. D. O'Neall

Manager, Fuel Metering, Emissions, and Ignition Dept
V-Engine Engineering, Ford Motor Company
joneall@ford.com, 313-322-6639

—Original Message—

From: Freeland, Mark (M.)
Sent: Thursday, September 19, 2002 3:07 PM
To: O'Neall, Jim (J.D.)
Cc: Akolkar, Shrikant (S.V.)
Subject: Windstar Sensor #99

Jim,

Please forward me all info you have regarding the sensor Shri brought me to test this afternoon. I would like to make sure the document I send you is clear and concise.

Can you provide the following: **Sensor #99 is not a warranty return. It was a parlyone coated sensor placed on a 3.8L Windstar belonging to a taxi cab fleet in Las Vegas, NV so there are no PCM codes to have for reference. Vo readings were made with 5V power supply and digital multimeter. Sensor was removed from vehicle and allowed to cool for 1hr in a/c room. At time of measurement room temp was 23 degrees C. No Check Engine Light was observed.**

VIN #: I can provide this next week. The Fleet Engineer who I work with is out of the office until Monday.

Mileage accumulated on the sensor. 22,624 miles.

Date the sensor was removed. Date installed: 5/28/02. Initial Vo = 1.033 v. Date removed: 9/6/02. Vo = 0.520 v. Both dies responsive.

Were there any stored codes in the PCM, all codes are of interest, not just the dPFE codes? N/A. Not a warranty return sensor.

What is the full repair history for this vehicle from the date the sensor was installed until the date it was removed? I suspect that the engine has a misfire history, of some sort. N/A. Not a warranty return sensor.

Do we have Kavilco's parametric test data for the part. Not sure. Kavilco may have performed some parametric test before removing the ports and sending the sensor to us for further analysis.

Thanks

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreela1@ford.com
Tel: (313) 594-7645

EA02-027-G 21981

From: Verner, Carol (C.J.)
Sent: Friday, April 26, 2002 3:09 PM
To: Freeland, Mark (M.)
Subject: FW: EEC PART NUMBERS

Mark,

Please read John's note.

Thanks
Carol

-----Original Message-----

From: Jahshan, John (J.H.) [mailto:jjahshan@visteon.com]
Sent: Friday, April 26, 2002 3:02 PM
To: 'Verner, Carol (C.J.)'
Subject: RE: U204 EEC PART NUMBERS

Well look no further because you have found him. My question to you is what MY, Engine and Transmission configuration and Emission regulation level are you looking for?

You also may want to ask Mark how he plans on testing all these modules. I am currently supplying him with 12 PCMs that have a know solder crack issue.

John H. Jahshan
POEE Resident Engineer
PCM Applications
jjahshan@visteon.com
Phone & Fax: (313) 722-1638 or (313) 390-4854
Pager: (313) 795-8068
<http://www.myairmail.com/>
"WHETHER YOU BELIEVE YOU CAN DO SOMETHING OR YOU BELIEVE YOU CAN'T, YOU'RE RIGHT"

-----Original Message-----

From: Verner, Carol (C.J.) [mailto:cverner@ford.com]
Sent: Friday, April 26, 2002 1:09 PM
To: 'jjahshan@visteon.com'
Subject: FW: U204 EEC PART NUMBERS

Hello John,

Bernie was very helpful with providing PCM part numbers for the U204 program. Can you send me the name of the person for the Focus PCMs. Mark Freeland wants me to buy a couple of PCMs for the Focus.

Let me know.
Carol

-----Original Message-----

From: Nikolai, Bernie (B.E.) [mailto:bnikolai@visteon.com]
Sent: Friday, April 19, 2002 11:03 AM

To: 'cvarner@ford.com'
Subject: U204 EEC PART NUMBERS

Carol,

Attached is the part number spreadsheet.

<<U204_Files.xls>>

Bernie Nikolai
Visteon Powertrain Control Systems
PH: 313-755-1401
FAX: 313-755-2857
bnikolai@visteon.com

From: Verner, Carol (C.J.)
Sent: Tuesday, March 26, 2002 5:08 PM
To: Freeland, Mark (M.)
Subject: RE: HOW ABOUT I MEET YOU AT THE DOOR IN 10 MINS

OK

—Original Message—

From: Freeland, Mark (M.)
Sent: Tuesday, March 26, 2002 5:08 PM
To: Verner, Carol (C.J.)
Subject: HOW ABOUT I MEET YOU AT THE DOOR IN 10 MINS

Mark

From: Verner, Carol (C.J.)
Sent: Tuesday, March 26, 2002 5:05 PM
To: Freeland, Mark (M.)
Subject: RE: Zarlink parts needed

Mark,

You can have the two in my desk. Do you want me to sit them out on my desk for pickup?

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, March 26, 2002 5:04 PM
To: Verner, Carol (C.J.)
Subject: RE: Zarlink parts needed

Carol,

Either would work for us, whichever we can get the soonest! If you can't get me then contact Jon Hanges when you know which we can have.

Thanks

Mark

From: Vemer, Carol (C.J.)
Sent: Tuesday, March 26, 2002 5:02 PM
To: Freeland, Mark (M.)
Subject: RE: Zarlink parts needed

Mark,

I only have two virgin parts in my desk drawer. A long shot, Gary Danhoff had a couple he was doing OBD II measurements on. Don't know if these will work for you. I can give you the parts tomorrow.

Carol

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Tuesday, March 26, 2002 5:01 PM
To: Vemer, Carol (C.J.); Gates, Freeman (F.C.); Maurer, James (J.B.)
Cc: Akins, Mary (M.)
Subject: Zarlink parts needed

Call for help.

We need a few Zarlink parts for destructive analysis related to UPAD. We want to check them for the HILLOCKS that we have been looking at. Can any of you help us get a few?

Thanks

Mark

From: Verner, Carol (C.J.)
Sent: Thursday, March 21, 2002 3:56 PM
To: Freeland, Mark (M.)
Subject: Mazda Tribute Reminder

Mark,

Just a note for the name of the person to contact about getting the buyback Tribute transferred to FMEI. From the xcel spreadsheet, vehicle #7 is the one I am having the vehicle coordinator get his hands on.

Carol

Subject: Updated: Mountaineer Rear Windows Opening While Driving
Location: Fairlane Plaza South, 4th floor, Jim Vondale's office

Start: Tue 9/24/2002 4:00 PM
End: Tue 9/24/2002 5:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Vondale, James (J.P.); Sweeney, Stephanie (S.L.); Freeland, Mark (M.); Kleinke, Darrell (D.K.); Exell, Jeffrey (J.R.)
Optional Attendees: Prasad, Priya (P.)

RESCHEDULED FROM 9/17 AT 4:00PM

Mark Freeland is driving a 2002 MY Mountaineer. While driving the vehicle, the rear window has unlatched itself (he heard the solenoid activate) and the door ajar indicator on the dash came on. Moments later, the door lock solenoids all activated. He believes this has happened numerous times as he has found the rear glass open at the end of a drive when he was certain it was closed at the beginning of the drive.

This meeting is to discuss the incident and determine if there are other reports of similar incidents.

Subject: Updated: Mountaineer Rear Windows Opening While Driving
Location: Fairlane Plaza South, 4th floor, Jim Vondale's office

Start: Tue 9/24/2002 4:00 PM
End: Tue 9/24/2002 5:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Vondale, James (J.P.); Sweeney, Stephanie (S.L.); Freeland, Mark (M.); Kleinke, Darrell (D.K.); Exell, Jeffrey (J.R.)
Optional Attendees: Prasad, Priya (P.)

RESCHEDULED FROM 9/17 AT 4:00PM

Mark Freeland is driving a 2002 MY Mountaineer. While driving the vehicle, the rear window has unlatched itself (he heard the solenoid activate) and the door ajar indicator on the dash came on. Moments later, the door lock solenoids all activated. He believes this has happened numerous times as he has found the rear glass open at the end of a drive when he was certain it was closed at the beginning of the drive.

This meeting is to discuss the incident and determine if there are other reports of similar incidents.

Subject: Updated: Mountaineer Rear Windows Opening While Driving
Location: Fairlane Plaza South, 4th floor, Jim Vondale's office

Start: Tue 9/24/2002 4:00 PM
End: Tue 9/24/2002 6:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Vondale, James (J.P.); Swaney, Stephanie (S.L.); Freeland, Mark (M.); Kleinke, Darrell (D.K.); Exall, Jeffrey (J.R.)
Optional Attendees: Prasad, Priya (P.)

RESCHEDULED FROM 9/17 AT 4:00PM

Mark Freeland is driving a 2002 MY Mountaineer. While driving the vehicle, the rear window has unlatched itself (he heard the solenoid activate) and the door ajar indicator on the dash came on. Moments later, the door lock solenoids all activated. He believes this has happened numerous times as he has found the rear glass open at the end of a drive when he was certain it was closed at the beginning of the drive.

This meeting is to discuss the incident and determine if there are other reports of similar incidents.

From: Vondale, James (J.P.)
Sent: Monday, August 12, 2002 2:53 PM
To: Freeland, Mark (M.)
Cc: Prasad, Priya (P.); Sweeney, Stephanie (S.L.); Smith, Sheila (S.M.)
Subject: RE: Rear windows on Mountaineer opening while driving

Sheila, please set up a meeting and invite Stephanie. She will check to see if we are aware of similar incidents and invite the appropriate person(s) from the program. Thanks.

-----Original Message-----

From: Freeland, Mark (M.)
Sent: Monday, August 12, 2002 2:26 PM
To: Vondale, James (J.P.)
Cc: Prasad, Priya (P.)
Subject: Rear windows on Mountaineer opening while driving

James,

I was referred to you by Priya Prasad, as the correct person to report this concern to.

While driving this past weekend the rear window of my 2002 MY Mountaineer unlatched itself (I heard the solenoid activate) and the door ajar indicator on the dash came on. Moments later the door lock solenoids all activated.

I believe that this has happened quite a number of times, as I have on many occasions found the rear glass open at the end of a drive when I was certain that I had closed it at the beginning of the drive.

I would like to meet with you in person to discuss this issue.

Regards

Mark Freeland

6-Sigma Black Belt
Engine Research Department
Ford Research Laboratory
P.O. Box 2053
MD 2629 - SRL - Room 1517
Dearborn, MI 48121-2053 USA
email: mfreel1@ford.com
Tel.: (313) 594-7645

From: Vroman, Dennis (D.A.)
Sent: Thursday, May 16, 2002 1:24 PM
To: Azad, ANM (A.); Freeland, Mark (M.)
Subject: FW: Warranty Part Return Status

Here's my update information on sensor changes.

Dennis Vroman

dvroman@ford.com

Product Design Engineer, EGR Systems

Phone: 313-337-1888

Fax: 313-390-4084

V-Engine Engineering - Ford Motor Company

---Original Message---

From: Azad, ANM (A.)
Sent: Thursday, May 16, 2002 12:11 PM
To: Freeland, Mark (M.); Vroman, Dennis (D.A.)
Subject: Warranty Part Return Status

Pls fill out the attached form for U152 EGR Sensors (9J480) to review the plans to improve warranty in next PST meeting.

Thanks

ANM Azad

U152/Quality Reliability



Warranty Part
Return Assessment...

Chassis - (7) U152 Canister Vent Valves (9F945) reviewed on 4/15/02 by A. Yeadon and Frank Robinson
(Visteon)

Powertrain - (22) U152 Alternators (10300) reviewed on 4/14/02 by Marlon Lee and Todd Ansbacher
(Visteon)

(10) U152 Main Transmission Control Assy (7A100) reviewed on 3/27/02 by Zhou Guochou

(6) *U152 EGR Sensors (9J460) reviewed on 3/28/02 by Dennis Vroman and Mark*

Freeland

---Original Message---

From: Fukuda, Neil (N.P.)
Sent: Wednesday, May 15, 2002 5:34 PM
To: Azad, ANM (A.)
Cc: Hillborn, Theresa (T.O.); Reiners, Donna (D.L.); Khan, Asad (A.)
Subject: FW: Warranty Part Return Status

ANM,

pls contact the suppliers and D&R mentioned below. You may need to follow up with Donna and/or PMT leaders to get the right names. I would like each of these parts reviewed at the May 24 PST meeting. See Asad to get them on the agenda. The purpose of this review is to insure that suppliers have plans to improve warranty. The D&R and supplier should work together to fill in the one pager attached. This should not take much effort to complete. If they need help pulling warranty, ask Asad to help. thx

EP02-027-G 22815

WARRANTY PART RETURN ASSESSMENT

Supplier: Kavlico DPFE Sensor
Part Description: EGR flow sensor
Part Number: 1L5E-9J433-AB

PST Review Date:
Supplier Contact:
D&R:

1. Parts of Returned Parts:

2. Warranty Trend Charts:

3. Containment Action:

4. Root Cause Analysis/Assessment:

5. Action Plan/Next Steps:

Kavlico sensor (1L5E-9J433-AB) replaced with Motorola sensor (2L3E-9J433-BA)
Sensor change occurred May 3, 2002 at KEP.
U/P207 change over scheduled for June 17, 2002.

From: Wilkins, Robert (R.M.)
Sent: Thursday, March 14, 2002 9:10 AM
To: Anthony Rollin; Antonio D'Agostino; Barry Caruso; bjohns49@visteon.com; Brady Gilmour; Brian Kinnie; Brian Lizotte; cncelroy@visteon.com; Curt Swick; Dave Dhaltwel; dmercha2@visteon.com; ffemendez@lear.com; jchigas1@visteon.com; jjahshan@visteon.com; john.kovacs@grupoantolin-usa.com; Jeowards@visteon.com; Ken Thomas; Kevin Coryea; ksingh@visteon.com; Linda Bell; Mark Freeland; Melvin Acuff Jr.; Michael Morton; Michele Goulet; Mike Giordano; Robert Jentz; Robert Wilkins; Ron Wepler; Sonjae Whang; Steven Stump; Susan Foust - Smith; Wieslaw Szymanski
Subject: Meeting Cancellation

Today's No Start Stall meeting has been cancelled. The next meeting is scheduled for next Thursday at 10 in the tynx room at WSAP.

From: Williams, Les (LHW.)
Sent: Thursday, March 21, 2002 4:43 PM
To: Bauer, Scott (S.C.); Freeland, Mark (M.); Green, Timothy (T.A.); Munoz, Kathleen (K.);
Souchock, Peter (P.D.)
Subject: dPFE
Importance: High

FYI..

-----Original Message-----

From: Sanders, Muriel (M.S.)
Sent: Thursday, March 21, 2002 4:08 PM
To: Williams, Les (LHW.)
Subject: RE: Buybacks

It went ok. There wasn't a lot of people on the line today. The DPFE was discussed a lot. I guess they finally got the part number changed, but didn't tell anyone. We're in the process of getting warranty data on it to see if it contributes to stalls on the Escape. Probably discuss more at next week's meeting.

Muriel Sanders

U204 3.0L Calibration
Ford Motor Company
Phone: 313-32-27307
Fax: 313-32-31786
E-mail: msander6@ford.com

-----Original Message-----

From: Williams, Les (LHW.)
Sent: Thursday, March 21, 2002 3:53 PM
To: Sanders, Muriel (M.S.)
Subject: RE: Buybacks

how was stall meeting? I wanted to make it but was in another meeting.

Subject: Canceled: Update: U204 Phantom Stall Meeting
Location: TEE COnference Rm 2

Start: Thu 3/21/2002 2:00 PM
End: Thu 3/21/2002 3:00 PM
Show Time As: Free

Recurrence: Weekly
Recurrence Pattern: every Thursday from 2:00 PM to 3:00 PM

Meeting Status: Not yet responded

Required Attendees: Williams, Les (LHW.); Altoonlan, Don (D.J.); Amenda, Harry (H.F.); Badgley, Joel (J.K.); Bauer, Scott (S.C.); Bhojwani, Karnal (K.); Blackburn, Thomas (T.J.); Bogema, John (P.); Cary Powell; Chick, John (J.); Chih, Ming-Niu (M.N.); Chin, Darrel (D.); Corbett, Sandra (S.M.); Dalbo, Bob (R.J.); Da Pena, Juan (J.E.); Diaz, Timothy (T.P.); Fascetti, Bob (R.J.); Fournelle, Gilbert (G.); Freeland, Mark (M.); Giles, Stuart (S.); Gokhale, Renuka (R.V.); Hansen, George (G.C.); Herr, George (G.J.); Hofman, Michael (M.V.); Holmes, Jeffrey (J.R.); Ichikawa, Jiyunkhiro (J.); Jansen, Ted (T.E.); John McDonald (E-mail); Jones, Andy; Jordan, Donald (D.E.); Kanai, Shinji (S.); King, Robert (R.F.); Klostermann, Eric (E.); Kwon, Soon (S.K.); Limtiaco, Steven (S.); Linde, Peter (P.A.); Liu, Jane (J.); Luehrsen, Eric (E.A.); Marck, Edmond (E.C.); Matasa, John (J.); Maurer, James (J.B.); Mazzella, Gary (G.R.); Mooney, Larry (L.); Moorhouse, Scott (S.R.); Morgan, Tom; Morishima, Shigeki (S.); Naveed Khan; Nematollahi, Sonya (S.); Nikolai, Bernie; Notaboom, Jim (J.E.); Ortman, James (J.W.); Powell, Cary; Powers, Ken (K.W.); Price, Martin (M.); Raquepau, Alden (A.P.); Rothweiler, Daniel (D.); Sanders, Muriel (M.S.); Shah, Kiran (K.C.); Shiraiishi, Masaru (M.); Stilgenbauer, Jeffrey (J.R.); Suarez, Rhae (R.); Sullivan, Jamie (J.P.); Takasawa, Keith (K.D.); Takubo, Hirokichi (H.); Vecchio, Anne Marie (A.); Wakenell, Ray (R.A.); Williams, Les (LHW.); Williamson, David (D.E.); Yeung, Lem (.)

Optional Attendees: Klostermann, Eric (E.); Williamson, David (D.E.); Blackburn, Thomas (T.J.); Freeland, Mark (M.); Moorhouse, Scott (S.R.); Hofman, Michael (M.V.); Bauer, Scott (S.C.); Jordan, Donald (D.E.)

Importance: High

Dial in: 1-866-250-3175 or Fordnet: 9-1-954-1163
International Participants # 1 (630) 827-6733
Passcode: 7354080#

The above Dial-IN info is invalid. Muriel Sanders has sent out updated dial-in info for Thursday 3/21 and ALL FUTURE MEETINGS. Thx!

-Les