EA11003EN-00347[0]

From: Non-responsive content removed
To:

CC:
Date: 2/1/2008, 3:53:00 PM
Subject: FW: Bosch technical review, Feuerbach, diesel high-pressure fuel pump
Attachments: TR_107999_D_Bosch_Feuerbach(D)_29-01-2008.pdf

For info

>Best regards >
Non-responsive content removed

>_____

>From Non-responsive content removed
>Sent:
Non-responsive content removed

>Subject: Bosch technical review, Bosch Feuerbach, diesel high-pressure fuel pump
>
>Dear Sirs,
>
>Attached you will find the report from the technical review
>at Bosch, Stuttgart Feuerbach.
>
>The reason for the visit was to test the cleanliness program in the
>pump manufacturing at Bosch according to 0-km-/field failures in B8-start-up due to chip in the intake valve of the diesel high-pressure fuel pump
>(Report 4 on market launch of A4 (B8) sedan)
>
>Result: amber traffic light, other measures and service required
>
>
>Best regards
>
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>AUDI AG
Non-responsive content remo
ved
>85045 Ingolstadt
>Non-responsive content removed

EA11003EN-00347[1]

EA11003EN-00373[0]

From: Non-responsive content removed
To:
CC:
Date: 3/25/2008, 10:06:02 AM
Subject: Spa. FW: Non-responsive content remove FW: Complaint CP4.1 - particles in the intake valve v_21_03_08 v_25_03_08
Attachments: 230001964628.pdf
PARTIKELANALYSE.pdf
8D_230001964628_008_3._20.pdf
Sauberkeit in der Haupmontage CP4.pdf
Workshop Restschmutzreduzierung.pdf

Hi guys,
Also for your info (particles in the intake valve / Jihlava / complaint Chemnitz)!

Non-responsive cont ent removed

Non-responsive content removed

Sent: Friday, March 21, 2008, 6:37 PM
To: Non-responsive content removed
Subject Non-responsive content removed FW: Complaint CP4.1 - particles in the intake valve v_21_03_08

Hello
at the previous Q meeting we received a CP4.1 from Non-responsive content remov ed at VW Chem-nitz.
In the VW Chemnitz cold test, the pump made noises and was analyzed in the manufacturing plant
at BOSCH Jihlava.
Details can be found in the email below for info.

Best regards

Non-responsive content removed

Non-responsive content removed

Subject: FW: Complaint CP4.1 - particles in the intake valve

Hello,

Attached I am sending the 8D on the complaint regarding pump HP-CP4.1 0 445 010 507

Compl. file:
SN: BPT 0315
DoM: 2/14/2008
IQIS: 230001964628
Customer ref. no: AV3 1214515
Compl. Type: 21- 0Km, installed
Failure date: 2/25/2008
Grounds of complaint: Noises when refueling

JhP findings: Chip in intake valve

Full analysis, slide with measures and 8D please see slide.

<<230001964628.pdf>> <<PARTIKELANALYSE.pdf>>
<<8D_230001964628_008_3._20.pdf>> <<Sauberkeit in der <P98>
Haupmontage CP4.pdf>> << Workshop Restschmutzre-duzierung.pdf>>

Best regards.
Petr Brabenec

Robert Bosch GmbH - Diesel Systems

Non-responsive content removed

My name is Non-responsive content removed and I am a Customer Account Manager at the BOSCH Jihlava plant

for AUDI and VW customers.

According to information from [redacted] I am to issue an 8D report for complaints regarding the HP-CP4.1
with aluminum particles in the intake valve and sent this to you.

Due to the fact that I have an all-day business call from AUDI Hungaria, I will try to draw up an 8D report after the call and
send it.

Many thanks for your patience and best regards from Jihlava.

[redacted]

Robert Bosch GmbH - Diesel Systems
BOSCH DIESEL s.r.o.
[redacted]

EA11003EN-00400[0]

From: Non-responsive content removed
To:

CC:

Date: 10/17/2008, 3:01:26 PM
Subject: Minutes of Q meeting on 10/8/2008 CP4 in FeP (Feuerbach plant)
Attachments: OPL VW CRSx x Q-Gespräche inkl Sauberkeit CPx x Stand 17 10 2008.xls
Status RSV-Kalotte 10-08.pdf
PHA_OPL_04 07 2008 VW_Salzgitter_Emden_neu ergänzt 14.10.2008.xls
PaynterCharts_alle_CP4.x_VW_AUDI_JhP_10_2008.pdf
Kolbenfresser.pdf
31708.pdf
OPL_Kolbenfresser.pdf
Ishikawa_gefressener Kolben.pdf
Špona sací zátka.pdf
OPL_Span_in_SV.pdf
Ishikawa_Späne unter SV.pdf
FeP_PaynterCharts_alle_CP4x_VW_AUDI_mit Diagramm und ppm_02102008_2.pdf
Analysefotos 4A47neu_[redacted].pdf
Beanstandung_WDR undicht.pdf
Analysefotos 4VW104_Mexico_neu.pdf
Ppe aus Italien.pdf
VW-CP4 1 CRS2 5 Status.xls
Erprobungsstatus CP4.1 für VW R4 2.0L EA189.pdf
Restschmutzreduzierung_Gehäuse_VW.pdf
Sauberkeitsstatus WaP ZME4 KW41.pdf
Vgl Raildruck FeP JhP.pdf
Ausfälle-intern.pdf
OPL48 Prinzipskizze RSA ZME.pdf
OPL 62 Sauberkeit Prüföl ZME4.pdf

Brief minutes with open point list for Q meeting CP4 10/8/2008 in Feuerbach

Dear all,
Please find attached the open point list and documents mentioned in the agenda

EA11003EN-00400[1]

Agenda:

Discussion open point list Q meeting in general

joint revised open point list Q meeting/cleanliness
<<OPL VW CRSx x Q-Gespräche inkl Sauberkeit CPx x Stand 17 10 2008.xls>>

Slide shown for point 200 of the open point list Q meeting:

<<Status RSV-Kalotte 10-08.pdf>>

Discussion open point list PHA

Revised open point list:
<<PHA_OPL_04 07 2008 VW_Salzgitter_Emden_neu ergänzt 14.10.2008.xls>>

Quality status field and 0-km failures FeP/JhP

Paynter Charts, slides [regarding] current failures
Status of findings for CP4.1 VW [redacted]

Documents shown from JhP

<<Kolbenfresser.pdf>>

<<PaynterCharts_alle_CP4.x_VW_AUDI_JhP_10_2008.pdf>>

<<31708.pdf>>

Documents [regarding] CP4 manufacture in JhP:

Piston seizure: <<OPL_Kolbenfresser.pdf>> <<Ishikawa_gefressener Kolben.pdf>>

Chip in the intake valve:

<<©pona sací zátka.pdf>> <<OPL_Span_in_SV.pdf>> <<Ishikawa_Späne unter SV.pdf>>

Slides shown from FeP

<<FeP_PaynterCharts_alle_CP4x_VW_AUDI_mit Diagramm und ppm_02102008_2.pdf>> <<Analysefotos 4A47neu_[redacted]pdf>> <<Beanstandung_WDR undicht.pdf>> <<Analysefotos 4VW104_[redacted]_neu.pdf>> <<Ppe aus [redacted].pdf>>

<P81>CP4.1 status for CRS2.5

Status CP4.1 für CRS2.5

Documents shown:

<<VW-CP4 1 CRS2 5 Status.xls>> <<Testing status for CP4.1 for VW R4 2.0L EA189.pdf>>

Results of appraisal for release [of] change package 4

Result: Joint appraisal of pump took place. Pump shows no striking features.
Further development of the topic in the management of change framework

Cleanliness status for FeP/JhP

Weekly cleanliness status for FeP/JhP known, therefore not discussed during Q meeting.
FeP slides:

ZME4 KW41.pdf>>
JhP.pdf>>

<<Restschmutzreduzierung_Gehäuse_VW.pdf>> <<Sauberkeitsstatus WaP <S>
<<Vgl Raildruck FeP

Cleanliness status for WaP and discussion of OPL
<<Ausfälle-intern.pdf>>
Discussion of open point list cleanliness

<<OPL48 Prinzipskizze RSA ZME.pdf>> <<OPL 62 Sauberkeit Prüföl ZME4.pdf>>

Open points / tasks in the revised open point list Q meeting/cleanliness

Increase in capacity for metering unit manufacture (duplication)

Desktop factory: Inspection of the automatic station intake valve pre-assembly
Result: Inspection took place. Further development of the topic in the management of change framework
Additional point from the change discussion: Discussion of release C coating.

EA11003EN-00400[2]	Result: Topic was discussed.	Further development of the topic in the management of change framework

AOB:

Definition with [redacted]:
For CP4 complaints from VW plants, the history of which [redacted] cannot fully understand, the complaint shall be tested by way of re-installation into the engine.

Once the plausibility of the complaint has been tested (through history / re-installation), the article is be sent on to Bosch for analysis.

Best regards

[redacted]

Robert Bosch GmbH
[redacted]
70442 Stuttgart
Germany
www.bosch.com

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BOSCH

Microsoft Outlook

From: Non-responsive content removed
Sent: Tuesday, March 22, 2011 7:13 AM
To: Non-responsive content removed
Cc:
Subject: WG: TPI / analyse result CR-pump US-07 / no trouble found
Attachments: WG: 8D-Reporte HD-Pumpen US07; HDP_Späne2020693.pdf

Hello all;

Please find enclosed a additional information, regarding the last analys result for CR-pumps.

In the past Bosch had received via VW Non-responsive content removed a respectable numbers of claimed CR-pumps Typ CP4 for US-07.

Regarding the preanalyse at the VW [redacted] plant and detailed analyses at the Bosch investigation point, we'd like to inform you about a important topic.

We received a few pumps with the fault description from your local VW-partner: "Metall particel at the filter". In a few cases the partner use this as an indication, to verify a mechanical breakdown from the CR-pump.
To improve this action, we'd prefer additional to remove the measuring unit on the top of the pump. If it's possible to find particel at this component, then we confirm the repair to exchange the whole fuel system.
Please note;
To find some partcel or dust in the main filter box, can not be prevented. Usually you can find aluminium particel, because the housing of the filter box ist made of aluminium splash.

Attached please find a service information from your AUDI-colleagues. They have already implemented this improvement.

Mit freundlichen Grüßen / Best regards

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Robert Bosch GmbH
Non-responsive content removed
38023 Braunschweig
GERMANY
www.bosch.com

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EA11003EN-00734[0]

From: Non-responsive content removed
To:

CC:
Date: 7/2/2010, 6:57:48 AM
Subject: FW: Preliminary analysis results 10 USA pumps
Attachments: Analysen_Übersicht_10xUSA.xls

fyi

From: Non-responsive content removed
Sent: Friday, 2 July 2010 07:21
Non-responsive content removed
Subject: FW: Preliminary analysis results 10 USA pumps
Importance: High

Non-responsive content removed

The analysis at Bosch has taken place.
We set additional steps for the analysis onsite for some of the HP pumps (see Table).
Drivetrain damage was found in 5 of the HP pumps with the cause "Turned Tappet".
Bosch already has corrective measures for this case of damage as you know (including hair-line test , visual inspection catalog
roller support, etc.)
With the HP pumps still t.b.d., lab analyses and test bench runs are being run in order
to be able to reliably determine the cause of the damage.
The HP pumps are relatively far apart in terms of their date of manufacture.

Further processing:
Classification of damage cases by time to measures taken by Bosch
With vehicles with 0-km mileage but relatively "old" production period (around 1 year) we need to check whether these vehicles
were used as show vehicles at the dealer
Get date for the information still needed to prepare the documents
Issue of 8D reports by Bosch
Concluding evaluation with measures

We will keep you up-to-date on the progress and conclusion of this analysis

Findings from the analysis : Exact analysis results for HP pumps are only possible when the analysis was performed **by Bosch** (where possible with VW employees).
There are analysis procedures at. Bosch for problem HP pumps,
These procedures are available and are documented in the relevant AP.
The existing installed test systems at Bosch are acceptable for the analysis statements and damage findings.

Yours sincerely,

Non-responsive content removed

Quality Assurance
Non-responsive content removed

From: Non-responsive content removed
Sent: Thursday, Juli 1, 2010 06:01 PM
To: Non-responsive content removed
Cc:
Subject: Preliminary analysis results 10 USA pumps

Dear Mr Non-responsive content removed
as promised a summary of our results.

It is not a PDF file but in Excel format to allow Mr Non-responsive content removed to add columns or to correct the mileage (in red).
I would like to hold off on sending the official "statement" out to a larger distribution list until the list is completed. The first 8D reports are expected to be completed and sent next week.
Once again many thanks for the great work.

Best regards

Non-responsive conte
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Robert Bosch GmbH
Non-responsive c
ontent removed

EA11003EN-00736[0]

From: Non-responsive content removed
To:
CC:
Date: 8/3/2010, 9:48:08 AM
Subject: CP4
Attachments: TDI High Pressure Fuel Pump Failures.xls

Hello [redacted]

Please find attached a list of complaints from the USA concerning the high-pressure fuel pump.

Best regards

Non-responsive content removed
Service Technology Engines

AUDI AG
Non-responsive content removed

EA11003EN-00744[0]

From: Non-responsive content removed
To:
CC:
Date: 2/15/2011, 12:58:16 PM
Subject: Analysis results
Attachments: HDP_Feld_USA.xls

Hi colleagues, Please get in touch if you have any questions.

>_____
>From: Non-responsive content removed
>Sent: Tuesday, February 15, 2011, 12:28 PM
>To: Non-responsive content removed
>Re: Analysis results
>
>
>
>With best wishes,
>
>Non-responsive content removed
>
>Non-responsive content removed
>
>
>
>VOLKSWAGEN AG
>Sitz/Domicile: Wolfsburg
>Registergericht/Court of Registry: Local District Court Braunschweig
>HRB no./. Commercial Register No.: 100484
>Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Ferdinand Piëch
>Vorstand/Board of Management: Martin Winterkorn (Vorsitzender/Chairman), Francisco J. Garcia Sanz, Jochem Heizmann, Horst Neumann, Hans Dieter Pötsch
>
>Wichtiger Hinweis: Die vorgenannten Angaben werden jeder E-Mail automatisch hinzugefügt und lassen keine Rückschlüsse auf den Rechtscharakter der E-Mail zu.
>Important Notice: The above information is automatically added to this e-mail. This addition does not constitute a representation that the content of this e-mail is legally relevant and/or is intended to be legally binding upon VOLKSWAGEN AG.
>
>
>

VERSION: 8/29/2008

High-pressure fuel pump 03L 130 755   Hall/Bay 2008

					COMPLAINTS,											BUILD DATE Injector							
POS.	GNRL.	FIELD	0km	mileage in km	EZL	DATE	VEHICLE	ENGINE l / kW	ENGINE Identifying letters	Engine Number	VI No	AUDI	VW	COMPLAINT	ANALYSIS VW SZ	YEAR	DAY	NO.	MONTH	QT-No.	CAUSE ANALYSIS PIERBURG	MEASURES	SHIPPEDD
1																							
2																							
3																							
4																							
5																							
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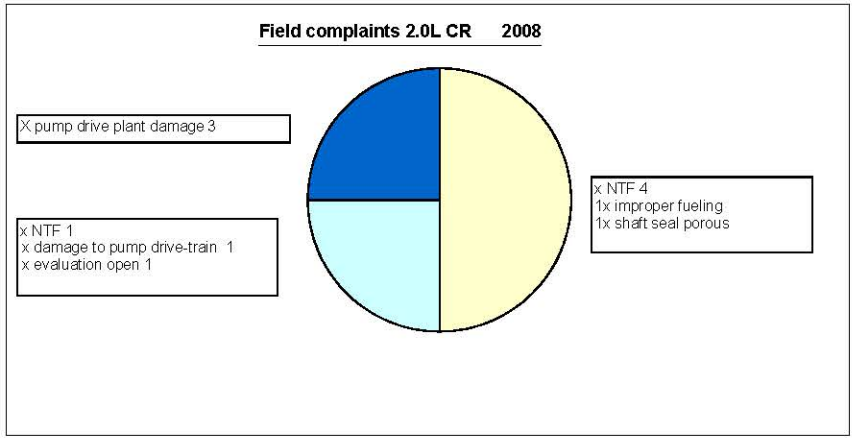
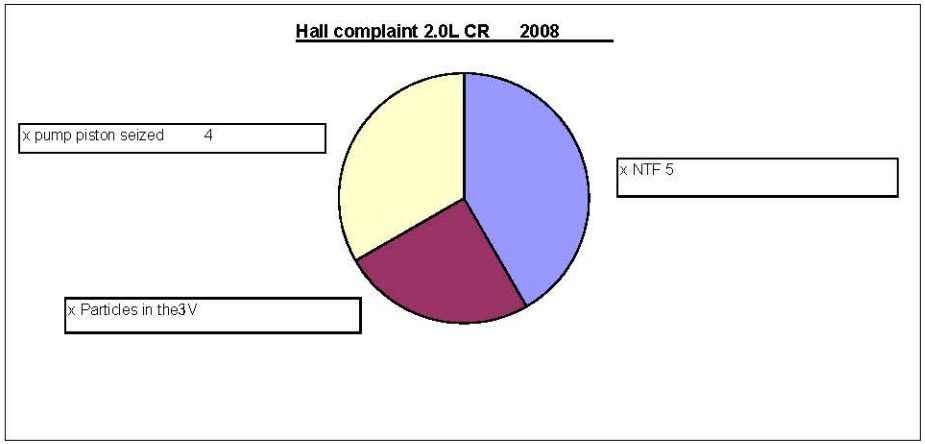
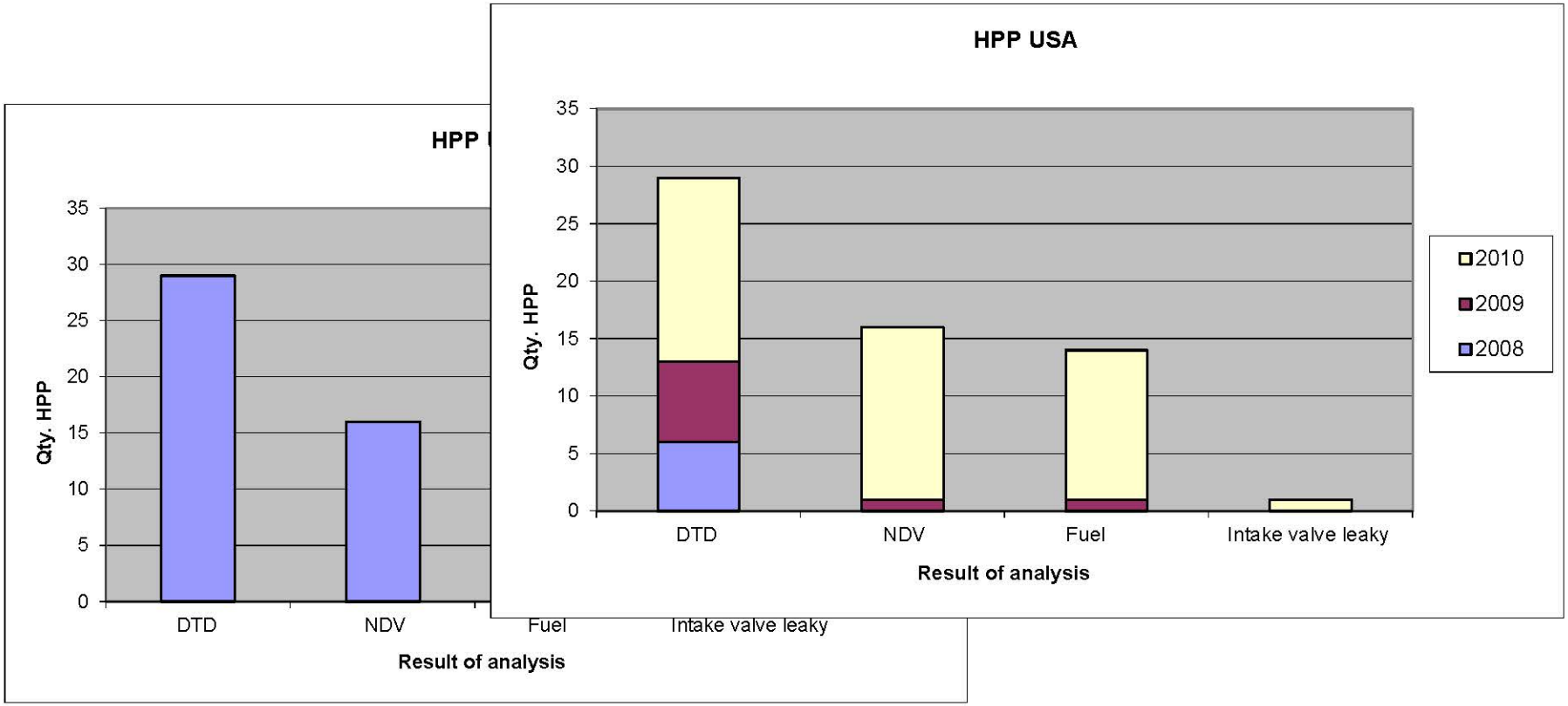
Tiguan improper fueling
Tiguan shaft seal porous
Tiguan NTF 6
Passat NTF
3
Passat Damage to pump drive plant Passat open
Jetta damage to pump 3

Passat NTF 5
Passat Particles IV 3
Passat pump piston seized 4





	tot	2.008	2.009	2.010
DTD	29	6	7	16
NDV	16		1	15
Fuel	14		1	13
Intake valve leaky	1			1
Turned tappet				
deposit				
shaft seal leaky				



High-pressure fuel pump 03L 130 755/ 755A/755J   Hall/bay   2008 /09 /10/11   As of. 2/14/2011

					COMPLAINTS,Data												CONSTRUCTION DATE HPP													
POS.	GNRL.	FIELD	0km	Mileage in km	EZL	DATE	VEHICLE	ENGINE l/kW	ENGINE Identifying character	Engine Number	VI Number	AUDI	VW	COMPLAINT	Origin	Part number VW	YEAR	Month	Day	Serial-no.	Plant	QT-no. QK-no. Ref. no.	SHIPPED	Preliminary analysis by VW/Bosch	CAUSE ANALYSIS Bosch	MEASURES	Feedback causal factor	Fault pattern		
25		X		8,000 Mil		10/7/2008	Jetta TDI	2.0L/103			3VWCL71K29[redacted]		X	Chipse	Complaint USA	03L 130 755 A	08	01	17	BPT 0771	011		VA 98.806 10/7/20		Pump drivetrain damage	Pump drivetrain damage	(done)	DTD	8	
27		X		12 Mil		4/9/2008	Jetta TDI	2.0L/103			3VWAL71K99[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	04	03	BPT 0954	011		VA 98.891 10/8/20		Pump drivetrain damage	Pump drivetrain damage	(done)	DTD	8	
28		X		3622 Mil		8/14/2008	Jetta TDI	2.0L			3VWCL71K79[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	01	11	BPT 0029	011		VA 98.891 10/8/20		Pump drivetrain damage	Pump drivetrain damage	(done)	DTD	8	
39	X			10.898		10/30/2008		2.0L/103					X	Function not OK endurance run pumpe	Complaint USA	03L 130 755 A	08	05	10	BPT 0424	011		AV3 1195383		Analysis:Drive no conspicuous feature OK drivetrain can path completely worn, no 90° rotation mark or breakouts identifiable Roller coating surface completely worn; no no 90° rotation mark identifiable Roller support with complete wear in contact region up to height of insert cane back of roller support with particle drafts in the whole center High-pressure high-pressure piston base with particle drafts in entire center High-pressure piston base with cavitation erosion around the center bearing wear particles on/in the surface of the flange, radial bearing,camshaft flange bearing area with fine,luminescent striations on a brownish surface wear particles on/in the surface of the surface of the housing, radial bearing. Camshaft housing bearing region with fine, luminescent striations on a brownish surface. Shaft seal: no OK bores: Tappet hole with particle drafts and particle throughputs. Extension components (MU,OV,CP) screen of overflow valve deformed. O,rings: MU O-ring cuts.Misc.: no striking features OK	Pump did not pass the endurance run.	done 06/29/09			
63		X		1,389 Mil	9/15/2008	9/29/2008	Jetta TDI	2.0/103	CBE	003.544	1K29[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	04	01	BPT 0848	011	NO.1	VA 98.993 1/21/2009	Metering unit picked up with Mr Hennig, chips beneath the metering unit	Pump drivetrain damage	Pump drivetrain damage	2/12/2009 Jochmann	DTD	8	
64		X		9,106 Mil		8/18/2008	Jetta TDI	2.0/103	CBE	004.051	1K9M[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	04	24	BPT 0301	011	NO.2	VA 98.993 1/21/2009	Metering unit picked up with Mr Hennig, chips beneath the metering unit	Pump drivetrain damage	Pump drivetrain damage	2/12/2009 Jochmann	DTD	8	
65		X					Jetta TDI	2.0/103	CBE	001.468	1K8M[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	02	29	BPT 0339	011	NO.3	VA 98.993 1/21/2009	Metering unit picked up with Mr Hennig, chips beneath the metering unit	Pump drivetrain damage	Pump drivetrain damage	2/12/2009 Jochmann	DTD	8	
68		X		3.441	8/22/2008	10/6/2008	Jetta TDI	2.0/103	CBE	001.468	1K9M[redacted]		X	Noisese	Complaint USA	03L 130 755	08	06	12	BPT 1092	011	QT 80627	VA 98974 Invalid	Result of HPP visual inspection,part number 03l 130 755 not a pump for USA, HPPs for USA- market are 03L 130 755 A The HPP 03L 130 755 A subject to the complaint was not received by us. The HPP 03L 130 755 A was not free for CUST, was corrected by Development	Analysis VW: HPP is a new part - not yet used in the engine. HPP was delivered by mistake. HPP was delivered to the MQC Mr Preußker on 12/4/09 for 2nd installation,vehicle still runs.	HPP in vehicle WOB,VB 284 installed on 12/04/08 vehicle continued to run 2,300 km without complaint until 02/05/09	Part sent on Mr.Preußker on 12/04/08			
91		X		2.525	1/30/2009	2/11/2009	Jetta TDI	2.0/103			1K9M[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	08	16	BPT 0429	011		VA 99058 4/2/2009	metering unit picked up, no chips or damage. Type plate displaced.	Visual check OK Seal tightness check OK Functional test OK	No HPP OK	06/4/2009 Jochmann	NDV	9	
92		X		12.030	8/20/2008	2/23/2009	Jetta TDI	2.0/103	CBA	080.523	1K6M[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	04	24	BPT 0126	011	USA	VA 99067 4/23/2009	HPP examined with Mr Frömrich Bosch HPP delivered incomplete, metering unit picked up and missing, chips in metering unit,hole (damage to drivetrain)	Metering unit missing Chips in the HPP drivetrain damage	Pump drivetrain damage	(done) 1/20/2010	DTD	9	
94		X		11.901	8/25/2008	2/13/2009	Jetta TDI	2.0/103	CBA	080.515	1K1[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	03	29	BPT 0721	011	USA	VA 99066 4/17/2009	HPP examined with Mr Frömrich Bosch metering unit picked up chips or dirt in the metering unit,bore	Analysis:Cause analysis:fuel probe not present metering unit with deposit cylinder head,intake valve with deposit sealing screw with deposit Coating analysis:Result: According to the IR,spectra largely consist of corrosion products,carbonates, biodiesel residues and dampness.Concluding findings:Customer fault, unsuitable fuel.	No(ne) complaint rejected since no RB,responsibility	6/15/2009 Jochmann	Fuel	9	
106		X			6/25/2008	4/1/2009	Jetta TDI	2.0/103			1K3[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	05	10	BPT 0437	011	NO.1	VA 99083 5/7/2009	picked up with Mr Hennig Bosch metering unit,chips at Metering unit and in the metering unit-bore	Pump drivetrain damage analysis: Non-permissibly high mixed friction leads to local contacts between the roller and roller support during operation C Layer broken. Friction value between roller and roller support increases. Stiff cam roll,wear,particle build-up,damage to drivetrain. Influential factors: Fuel with low dyn. viscosity,raised positions on roller (e.g. fusing)raised positions in roller support (e.g. metal splashes) Surface of roller/roller support.	Pump drivetrain damage	6/4/2009 Jochmann	DTD	9	
107		X			8/21/2008	4/10/2009	Jetta TDI	2.0/103			1K8[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	03	06	BPT 1008	011	NO.2	VA 99083 5/7/2009	picked up with Mr Hennig Bosch metering unit,chips at Metering unit and in the metering unit-bore	Pump drivetrain damage analysis: Non-permissibly high mixed friction leads to local contacts between the roller and roller support during operation C, Layer broken. Friction value between roller and roller support increases. Stiff roller,wear,particle build-up,damage to drivetrain. Influential factors: Fuel with low dyn. viscosity,raised positions on roller (e.g. fusing)raised positions in roller support (e.g. metal splashes) Surface of roller/roller support.	Pump drivetrain damage	6/4/2009 Jochmann	DTD	9	
127		X		33.681		7/29/2009	Golf	2.0/103			7A8A[redacted]		X	Major loss of power while driving and flashing filament in Estate	Complaint USA	03L 130 755 A	09	02	10	BPT 0507	011	USA safety vehicle	VA 99160 8/7/2009	Metering unit picked up, chips in the metering unit and in the bore	Pump drivetrain damage Impermissibly high mixed friction leads to local contact between roller and roller support during operation. C, layer broken.Friction value between roller and roller support increases. Stiff roller, wear, particle form ation,damage to drivetrain, influential factors: Fuel with low dyn. viscosity, raised areas on roller (e.g. fusing), raised areas in roller support (e.g. metal splashes), surface, roller/roller support	Pump drivetrain damage	done 08/17/09	DTD	9	
137	X			83.726					CBE	000.155	AU3[redacted]				Q-Assurance USA	03L 130 755 A	09	01	29	BPT 0425					Pump drivetrain damage Analysis:Damage to drivetrain: Deep wear tracks in the middle of the cam track through lateral roller as a consequence of a stiff roller, deep wear tracks on the roller accordingly. Wear track in the middle of the running surface of the roller support. We found numerous chips at the metering unit,screen,overflow valve,screen, in the CH,intake valve chamber, in the overflow valve,and metering unit,bore, and in the bearings and at the shaft seal. Metering unit,fixing screw did not come with delivery,probably removed by customer. Further work:REM,analysis roller and roller support for	Pump drivetrain damage	Interim report	DTD	9	
141		X		13.388		5/12/2009		2.0/103			1K8[redacted]		X	No function	Complaint USA	03L 130 755 A	08	04	07	BPT 1084	011				Pump drivetrain damage Impermissibly high mixed friction leads to local contact between roller and roller support during operation. C, layer broken.Friction value between roller and roller support increases. Stiff roller, wear, particle form ation,damage to drivetrain, influential factors: Fuel with low dyn. viscosity, raised areas on roller (e.g. fusing), raised areas in roller support (e.g. metal splashes), surface, roller/roller support	Pump drivetrain damage	completed 08/19/09	DTD	9	
178	X			36.907		10/22/2009		2.0/103	AJBA	M021	8A4A[redacted]		X	Fuel high-pressure pump faulty, chips in the pumpe	Safety engine USA	03L 130 755 A	09	03	06	BPT 0136	011		AV3 857456 10/22/2009		Drivetrain pump damage: being worked on as part of a cross-departmental task force since May 2007. Task Force activity ongoing. Failure hypothesis as of feb 2009: Impermissibly high mixed friction leads to local contact between roller and roller support during operation. C,layer broken; friction value between roller and roller support increases. Stiff roller ,wear,particle build-up,damage to drivetrain.Influential factors:fuel with low dyn. viscosity,raised positions on the roller (e.g. fusing) raised positions in the roller support (e.g. metal splashes) surface, roller/roller support	Pump drivetrain damage	(done) 11/16/2009	DTD	9	
195		X		793		3/2/2010		2.0/103			7A 4A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	07	17	BPT 0741	011	NO.1	VA 99357 3/2/2010	Metering unit picked up, no chips or damage Output-shaft turns trough	Analysis: Visual inspection OK; visual inspection supply and return connectors; Axial play OK; imprint depth NRV, spring holder OK; seal check OK; leak test OK; functional test OK tested 3x Result as per specification, no malfunction found.	None, no trouble found	(done) 3/29/2010	NDV	10	
196		X				3/2/2010		2.0/103			1K29[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	01	17	BPT 0993	011	NO.2	VA 99357 3/2/2010	Metering unit picked up rust and chips (water damage?) Output - shaft does not turn trough	Analysis:Damage to pump drivetrain caused by corrosion. Drivetrain damage was found at pump, caused by improper fuel. Various components of the HPP exhibit corrosion, Fuel analysis not possible as too little fluid present.	Customer is responsible. Pump drivetrain damage due to inappropriate fuel corrosion. Warranty RB refused	(done) 4/27/2010	Fuel	10	
227		X			4/12/2009	3/26/2010	Jetta TDI	2.0/103	CJAA	0.003.047	7A3A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	10	13	BPT 0861	011	210510/01	VA 99447 5/21/2010	Metering unit picked up, no chips or damage					10	
228		X				2/4/2010		2.0/103			1K9[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	12	13	BPT 0765	011	210510/02	VA 99447 5/21/2010	Metering unit picked up. Chips in the bore and at metering unit screen	Analysis:Damage to pump drivetrain is being worked on as part of a cross-departmental task force since May 2007.Task Force activity ongoing. Failure hypothesis, status feb 2009: Impermissibly high mixed friction leads to local contacts between the roller and roller support during operation.-->C,layer is broken--->Friction value between the roller and roller support increases --->Stiff roller,wear,particle formation, damage to the drivetrain influential factors:--->Fuel with low dyn.viscosity,raised positions on the roller (e.g. fusing),raised positions in roller support (e.g. metal splashes)---->Surface of roller/roller support.RB functional test OK no delta (temperature) Deviation during functional test.	Damage to the pump drivetrain is being worked on as part of a cross-departmental task force since May 2007, with customers Audi, BMW and VW. Since November 2009, a new task force has been set up with Audi. Overview of the steps taken to prevent damage to the drivetrain. Most recently implemented measure: HC, washing roller supports instead of aqueous washing.Proof presented on 12/2/2009	08/05/2010 Martinez Wob GQM-2	DTD	10	
229		X		12.237		6/11/2010	Jetta TDI	2.0/103			7A3A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	05	05	BPT 0689	011	090610/1	VA 99471 6/11/2010	Metering unit picked up, no chips or damage	Analysis:The pump is OK according to specification. The following analysis was carried out with the customer on 06/30/2010. .=>Visual inspection for external damage OK;=>Visual inspection supply and return connectors:OK;=>Testing the axial play OK;=>Press depth NRV, spring holder OK;=>Visual inspection NRV, spring OK;=>Dimensions check cone camshaft OK;=>Leakiness test OK;=>Functional test OK (3x tested);=>Fuel analysis not possible as no residual fuel present.	None, no trouble found	08/05/2010 Martinez Wob GQM-2	NDV	10	
230		X				6/11/2010	Jetta TDI	2.0/103	CJAA		7A3A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	07	17	BPT 0290	011	090610/2	VA 99471 6/11/2010	Metering unit picked up, no chips or damage Output-shaft hard to turn	Analysis:The pump is OK according to specification. The following analysis was carried out with the customer on 06/30/2010. .=>Visual inspection for external damage OK;=>Visual inspection supply and return connectors:OK;=>Testing the axial play OK;=>Press depth NRV, spring holder OK;=>Visual inspection NRV, spring OK;=>Dimensions check cone camshaft OK;=>Leakiness test OK;=>Functional test OK (3x tested);=>Fuel analysis not possible as no residual fuel present.	None, no trouble found	08/05/2010 Martinez Wob GQM-2	NDV	10	
231		X				6/11/2010	Jetta TDI	2.0/103			7A3A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	07	23	BPT 1246	011	090610/3	VA 99471 6/11/2010	Metering unit picked up. Chips in the bore and at metering unit screen Output- shaft hard to turn.	Analysis:Fuel fault /coating=>Visual check not OK. Deposit on metering unit,screen. Visual inspection of components:deposit at IV,compression spring,metering unit,flange,roller support and tappet spring. Coating analysis at CR/ARA. According to the IR spectra, the deposits are mostly corrosion products iron oxide hydrate carbonate and reaction products containing NH groups. Fuel analysis not possible as there was no residual fuel present. The deposits do however point to improper fuel during earlier refuels.	Complaint rejected since RB responsibility could not be established. Customer is responsible	8/6/2010 Martinez Wob GQM-2	Fuel	10	
232		X		23.633		6/11/2010	Jetta TDI	2.0/103	CAA	8.387	1K29[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	01	09	BPT 0402	011	090610/4	VA 99471 6/11/2010	Metering unit picked up, no chips or damage	Analysis:The pump is OK according to specification. The following analysis was carried out with the customer on 06/30/2010. .=>Visual inspection for external damage OK;=>Visual inspection supply and return connectors:OK;=>Testing the axial play OK;=>Press depth NRV, spring holder OK;=>Visual inspection NRV, spring OK;=>Dimensions check cone camshaft OK;=>Leakiness test OK;=>Functional test OK (3x tested);=>Fuel analysis not possible as no residual fuel present.	None, no trouble found	08/05/2010 Martinez Wob GQM-2	NDV	10	
233		X				6/11/2010	Jetta TDI	2.0/103			7A3A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	09	17	BPT 1143	011	090610/5	VA 99471 6/11/2010	Metering unit picked up, no chips or damage Output-shaft hard to turn	Analysis:Fuel fault /coating=>Visual check not OK. Deposit on metering unit,screen. Visual inspection of components:deposit at IV,compression spring,metering unit,flange,roller support and tappet spring. Coating analysis at CR/ARA. According to the IR spectra, the deposits are mostly corrosion products iron oxide hydrate carbonate and reaction products containing NH groups. Fuel analysis not possible as there was no residual fuel present. The deposits do however point to improper fuel during earlier refuels.	Complaint rejected since RB responsibility could not be established. Customer is responsible	08/05/2010 Martinez Wob GQM-2	Fuel	10	
234		X				6/11/2010	Jetta TDI	2.0/103			1K9[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	05	10	BPT 0668	011	090610/6	VA 99471 6/11/2010	Metering unit picked up. Chips in the bore and at metering unit screen	Analysis:The damage to the drivetrain was found during disassembly of the pump (surrounding abrasive wear to the camshaft with center lateral wear caused by turned tappet,running surface of roller with surrounding abrasive wear and turned tappet track). Deposits were found on the following parts which were investigated further by RB Labs : =>NRV_calotte=>NRV, spring=>overflow valve,Piston=>overflow valve,Spring. The IR spectra of the examined deposits show that these are byproducts of biodiesel. Concluding findings: Customer error i.e. the deposits leave one to infer about incorrect fuel being used in earlier refuelings. The drivetrain damage appeared as the consequence.	Customer responsibility - improper fuel	11/12/2010 Martinez	Fuel	10	
235		X				6/11/2010	Jetta TDI	2.0/103			1K7[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	03	16	BPT 0746	011	090610/7	VA 99471 6/11/2010	Metering unit picked up. Chips in the bore and at metering unit screen	Analysis:Damage to pump drivetrain is being worked on as part of a cross-departmental task force since May 2007.Task Force activity ongoing. Failure hypothesis, status feb 2009: Impermissibly high mixed friction leads to local contacts between the roller and roller support during operation.-->C,layer is broken--->Friction value between the roller and roller support increases ->Stiff roller,wear,particle formation, damage to the drivetrain influential factors:--->Fuel with low dyn.viscosity,raised positions on the roller (e.g. fusing),raised positions in roller support (e.g. metal splashes)---->Surface of roller/roller support.RB functional test OK no delta (temperature) Deviation during functional test.	Damage to the pump drivetrain is being worked on as part of a cross-departmental task force since May 2007, with customers Audi, BMW and VW. Since November 2009, a new task force has been set up with Audi. Overview of the steps taken to prevent damage to the drivetrain. Most recently implemented measure: HC, washing roller supports instead of aqueous washing.Proof presented on 12/2/2009	08/05/2010 Martinez Wob GQM-2	DTD	10	
236		X				6/11/2010		2.0/103			1K3[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	03	16	BPT 0595	011	090610/8	VA 99471 6/11/2010	Metering unit picked up. Chips in the bore and at metering unit screen Output- shaft hard to turn.	Analysis:Damage to pump drivetrain is being worked on as part of a cross-departmental task force since May 2007.Task Force activity ongoing. Failure hypothesis, status feb. 2009: Impermissibly high mixed friction leads to local contacts between the roller and roller support during operation.-->C,layer is broken--->Friction value between the roller and roller support increases --->Stiff roller,wear,particle formation, damage to the drivetrain influential factors:--->Fuel with low dyn.viscosity,raised positions on the roller (e.g. fusing),raised positions in roller support (e.g. metal splashes)---->Surface of roller/roller support.RB functional test OK no delta (temperature) Deviation during functional test.	Damage to the pump drivetrain is being worked on as part of a cross-departmental task force since May 2007, with customers Audi, BMW and VW. Since November 2009, a new task force has been set up with Audi. Overview of the steps taken to prevent damage to the drivetrain. Most recently implemented measure: HC, washing roller supports instead of aqueous washing.Proof presented on 12/2/2009	8/6/2010 Martinez Wob GQM-2	DTD	10	
237		X		13.319		6/11/2010		2.0/103			1K8[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	08	04	07	BPT 1054	011	090610/9	VA 99471 6/11/2010	Metering unit picked up. Chips in the bore and at metering unit screen	Analysis:Damage to pump drivetrain is being worked on as part of a cross-departmental task force since May 2007.Task Force activity ongoing. Failure hypothesis, status feb 2009: Impermissibly high mixed friction leads to local contacts between the roller and roller support during operation.-->C,layer is broken--->Friction value between the roller and roller support increases --->Stiff roller,wear,particle formation, damage to the drivetrain influential factors:--->Fuel with low dyn.viscosity,raised positions on the roller (e.g. fusing),raised positions in roller support (e.g. metal splashes)---->Surface of roller/roller support.RB functional test OK no delta (temperature) Deviation during functional test.	Damage to the pump drivetrain is being worked on as part of a cross-departmental task force since May 2007, with customers Audi, BMW and VW. Since November 2009, a new task force has been set up with Audi. Overview of the steps taken to prevent damage to the drivetrain. Most recently implemented measure: HC, washing roller supports instead of aqueous washing.Proof presented on 12/2/2009	8/6/2010 Martinez Wob GQM-2	DTD	10	
238		X		15.317		6/11/2010		2.0/103			1K9[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	01	23	BPT 0553	011	090610/10	VA 99471 6/11/2010	Metering unit picked up. Chips in the bore and at metering unit screen Output- shaft hard to turn.	Analysis:Damage to pump drivetrain is being worked on as part of a cross-departmental task force since May 2007.Task Force activity ongoing. Failure hypothesis, status feb. 2009: Impermissibly high mixed friction leads to local contacts between the roller and roller support during operation.-->C,layer is broken--->Friction value between the roller and roller support increases --->Stiff roller,wear,particle formation, damage to the drivetrain influential factors:--->Fuel with low dyn.viscosity,raised positions on the roller (e.g. fusing),raised positions in roller support (e.g. metal splashes)---->Surface of roller/roller support.RB functional test OK no delta (temperature) Deviation during functional test.	Damage to the pump drivetrain is being worked on as part of a cross-departmental task force since May 2007, with customers Audi, BMW and VW. Since November 2009, a new task force has been set up with Audi. Overview of the steps taken to prevent damage to the drivetrain. Most recently implemented measure: HC, washing roller supports instead of aqueous washing.Proof presented on 12/2/2009	8/6/2010 Martinez Wob GQM-2	DTD	10	
265		X				7/2/2010		2.0/103			7A3A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	09	09	23	BPT 0129	011		VA 99497 7/2/2010	Delivery by Mr Martinez Wob/ GQM,2	Analysis:Pump is OK =>Visual inspection for external damage OK=>Visual inspection supply and return connectors OK=>Inspection axial play OK=>Press-in depth NRV, spring holder OK=>Visual inspection NRV, spring OK=>Leak test OK=>Functional test OK:(tested 3x)=>Disassembly of cylinder head Visual inspection tappet,roller and camshaft running surface OK=>Fuel analysis not possible as no residual fuel present.	None, no trouble found	11/11/2010 Martinez	NDV	10	
368		X		5.847		6/14/2010	Jetta TDI	2.0/103			7A6A[redacted]		X	Function not OK	Complaint USA	03L 130 755 A	10	02	13	BPT 0338	011	USA	VA 99607 9/21/2010	Metering unit picked up. Chips in the bore and at metering unit screen	Analysis: Damage to pump drivetrain is being worked on as part of a cross-departmental task force since May 2007.Task Force activity ongoing. Failure hypothesis, as of May 2010: Impermissibly high mixed friction leads to local contact between roller and roller support during operation. => C,layer broken.=>Friction value between roller and roller support increases.=>Stiff roller, wear, particle formation,drivetrain damage.=>Influential factors: Fuel with low dyn. viscosity, raised areas on roller (e.g. fusing), raised areas in roller support (e.g. metal splashes), surface, roller/roller support	Bosch responsibility: Most recently implemented measure HC washing roller supports instead of an aqueous washing.	11/15/2010 Martinez	DTD	10	
521		X		24.068	6/19/2009	9/9/2010	Jetta TDI	2.0/103	CBEA	0.048.933	1K29[redacted]		X	Functional fault	Complaint USA	03L 130 755 A	09	04	06	BPT 0440	011	Ref.-no. 3.107.556	VA 99754 2/1/2011	Output- shaft hard to turn.Metering unit screws missing.Chips in the bore and at metering unit screen					10	
562		X		46.712	5/25/2009	9/15/2010	Jetta TDI	2.0/103	CBEA	0.047.312	1K3[redacted]		X	Functional fault	Complaint USA	03L 130 755 A	09	03	12	BPT 0539	011	Ref.-no. 3.104.836	VA 99754 2/1/2011	Output shaft hard to turn. Metering unit picked up, chips in the bore and at metering unit screen					10	
563		X		32.849	5/15/2009	10/20/2010	Jetta TDI	2.0/103	CBEA	0.043.427	1K8[redacted]		X	Functional fault	Complaint USA	03L 130 755 A	09	02	19	BPT 0006	011	Ref.-no. 3.176.885	VA 99754 2/1/2011	HPP incomplete,metering unit missing. Output- shaft jammed. Chips in the bore					10	
564		X		38.109	7/8/2008	10/7/2010	Jetta TDI	2.0/103	CBEA	0.002.714	1K29[redacted]		X	Functional fault	Complaint USA	03L 130 755 A	08	03	06	BPT 0984	011	Ref.-no. 3.221.306	VA 99754 2/1/2011	Output- shaft jammed.MU picked up Chips in the bore and MU screen					10	
565		X		57.344	8/27/2008	8/10/2010	Jetta TDI	2.0/103	CBEA	0.007.652	1K6[redacted]		X	Functional fault	Complaint USA	03L 130 755 A	08	06	07	BPT 0176	011	Ref.-no. 3.077.732	VA 99.754 2/1/2011	HPP incomplete, missing metering unit. Chips in the bore					10	
566		X		62.726	10/8/2008	10/27/2010	Jetta TDI	2.0/103	CBEA	0.014.421	1K9[redacted]		X	Functional fault	Complaint USA	03L 130 755 A	08	07	31	BPT 0643	011	Ref.-no. 3.219.981	VA 99754 2/1/2011	HPP incomplete,metering unit bolts missing. Output-shaft not turning.metering unit picked up Chips in the bore and at metering unit screen					10	

VW Sachsen from file: 27 01 2011 Pre-analysis HP-Pumps US07 (3)

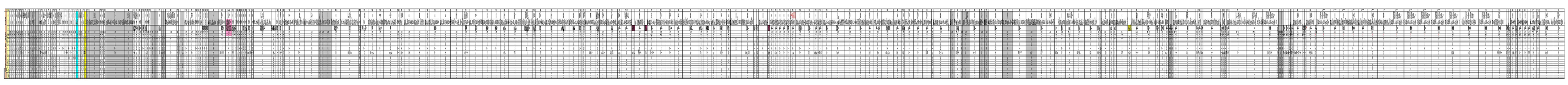
POS.	Mileage in km	Engine Number	VI Number	COMPLAINT	CAUSE ANALYSIS Bosch	Fault pattern
1st	28.756	CJA010361	3VWPL7AJ1AM[redacted]	Metal chips in fuel system	Inappropriate fuel - 8D-Report-01/12/11	Fuel
2nd	18.121	CJA024847	3VWPL7AJXAM[redacted]	Metal chips in fuel system	8D report DTD accepted by Bosch - corrective measures deployed - 1/14/11	DTD
3rd	7.375	CJA056043	3VWPL7AJ7AM[redacted]	does not start- P0087-Fuel system pressure too low	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
4.	8.084	CJA046361	3VWPL7AJ8AM[redacted]	P0087- fuel system pressure too low	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
5.	15.976	CJA016478	3VWPL8AJ3AM[redacted]	P0087- fuel system pressure too low does not start - lamp on	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
6.	4.868	CJA051563	3VWTL7AJ2AM[redacted]	P0087- fuel system pressure too low		
7.	787	CJA025097	3VWTL8AJ4AM[redacted]	Metal chips in fuel system		
8.	3.112	CJA056466	3VWTL7AJ2AM[redacted]	no output		
9.	10.234	CJA041107	3VWPL7AJ5AM[redacted]	Metal chips in fuel system	No trouble found - 8D report - 03/25/11	NDV
10.	15.542	CJA019335	3VWPL7AJ4AM[redacted]	P0087- fuel system pressure too low does not start - lamp on	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
11.	15.293	CJA005671	3VWPL7AJXA[redacted]	P0087- and metal chips in system	Deposits - inappropriate fuel- 8D report - 01/12/11	Fuel
12.	2.931	CJA026490	3VWPL7AJ1AM[redacted]	Does not start - electr. fault	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
13.	12.389	CJA035025	3VWTL7AJXAM[redacted]	P0087- fuel system pressure too low - 5 fault	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
14.	22.726	CJA003401	3VWAL8AJ4AM[redacted]	Does not start - lamp on	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
15.	8.953	CJA033742	WVWDM7AJ4A[redacted]	P0087- fuel system pressure too low metal chips in the filter	8D report PTD accepted by Bosch - corrective measures deployed - 1/13/11	DTD
16.	23	CJA056684	3VWAL7AJ7AM[redacted]	P0087- fuel system pressure too low	No trouble found - 8D report - 03/25/11	NDV
17.	20.922	CJA017951	3VWAL7AJ8AM[redacted]	Metal chips in fuel system, P0138	Deposits - inappropriate fuel- 8D report - 01/12/11	Fuel
18.	7.684	CJA023120	3VWAL7AJXAM[redacted]	no output	No trouble found - HP pump - 8D report - 01/25/11	NDV
19.	11.335	CJA042927	3VWRL7AJ0AM[redacted]	P0087/P0089- fuel System pressure too low-5fault(s)	8D report DTD accepted by Bosch - corrective measures deployed - 1/14/11	DTD
20.	20.902	CJA023595	WVWNM7AJ9A[redacted]	Metal chips in fuel system	HP pump -No trouble found- - 8D-Report-1/25/2011	NDV
21.	19.355	CJA015510	3VWRL7AJ5AM[redacted]		Deposits - inappropriate fuel- 8D report - 01/12/11	Fuel
22.	42.541	CJA003123	3VWAL7AJ0AM[redacted]	Engine does not start	Deposits - inappropriate fuel- 8D report - 01/12/11	Fuel
23.	9.280	CJA037049	3VWRL7AJ3AM[redacted]	P0087- fuel system pressure too low does not start - lamp on	Deposits - inappropriate fuel- 8D report - 01/12/11	Fuel
24.	38.984	CJA003834	3VWRL7AJ6AM[redacted]	Does not start	8D report DTD accepted by Bosch - corrective measures deployed - 1/14/11	DTD
25.	10.156	CJA018611	3VWRL7AJ4AM[redacted]	Starts poorly - metal chips in the filter	8D report - corrosion deposits fuel OK. - 2/1/2011	Fuel
26.	5.882	CJA025311	3VWTL7AJ9AM[redacted]	P0087- fuel system pressure too low	No trouble found - 8D report - 03/25/11	NDV
27.	13.694	CJA014411	3VWTLAJ1AM[redacted]	P0087- fuel system pressure too low	8D report DTD accepted by Bosch - corrective measures deployed - 1/14/11	DTD
28.	38.082	CJA011934	3VWTL7AJ3AM[redacted]	Removed through engine replacement Complaint unknown	No defect found - 8D report - 03/25/11	NDV
29.	8.400	CJA020853	3VWTL7AJ6AM[redacted]	Leakages	No defect found - 8D report - 03/21/11	NDV
30.	6.996	CJA049352	3VWTL7AJ1AM[redacted]	Engine does not start - P0077	Inappropriate fuel - 8D-Report-01/21/11	Fuel
31.	9.551	CJA015659	3VWAL7AJ8AM[redacted]	Vibration and sounds	8D report - no trouble found - 2/1/2011	NDV
32.	16.311	CJA017656	3VWTL8AJ1AM[redacted]	Engine does not start		

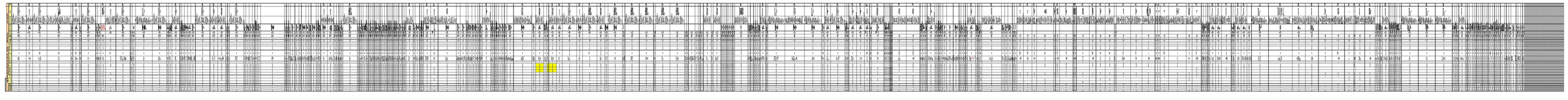
from List 08_12_10 US07 Parts delivery

POS.	Mileage in km	Engine Number	VI Number	COMPLAINT	Preliminary analysis by VW/Bosch	CAUSE ANALYSIS Bosch	Fault pattern	
								10
2	5.119	CJA030072	3VWTL7AJ1AM[redacted]	Engine does not start, metal chips metering unit	Chips collection at metering unit screen and in pump chamber below metering unit-electr. OK-DTD	Customer fault- Incorrect refueling according to info provided by Bosch	Fuel	10
6	6.639	CJA017859	3VWRL7AJ7AM[redacted]	Engine does not start, restart	externally without complaint, metering unit screen without complaint, no deposits in the pump chamber below metering unit - electr. OK	No additional activities -Completion	NDV	10
7	7.078	CJA003968	3VWAL7AJ2AM[redacted]	P0087 - rail system pressure too low	externally without complaint, metering unit screen without complaint, no deposits in the pump chamber below metering unit - electr. OK	No additional activities -Completion	NDV	10
21	6.977	CJA025707	3VWPL7AJXAM[redacted]	Chips in the fuel system	externally without complaint, metering unit screen without complaint, no deposits in the pump chamber below metering unit - electr. OK	Intake valve leaky- Corrective measures by Bosch	Intake valve leaky	10
24	3.103	CJA042995	WVWNM7AJXA[redacted]	Chips in the fuel system	Chips collection at metering unit screen and in the pump chamber below metering unit -DTD	Measure implementation of Anti-wear package 1	DTD	10
	5.860	CJA042758	3VWRL7AJ6AM[redacted]	Engine unsmooth running, does not start	According to discussion with Mr Rautenberg-no Preliminary: carried out	Measure implementation of Anti-wear package 1		10
44	39.944	CJA003036	3VWAL7AJXAM[redacted]	Engine does not start	10/27/10 Pre-analysis with Bosch - DTD chips in the MU		DTD	10
49	13.907	CJA014772	3VWRL7AJ6AM[redacted]	P0087 Fuel rail/system pressure too low	10/27/10 pre-analysis with Bosch - DTD chips in the metering unit and red fluid in the HP Pump		DTD	10
53	10.933	CJA006199	3VWTL7AJXAM[redacted]	Engine does not start	10/27/10 pre-analysis with Bosch - externally, no trouble found			10

doubled

POS.	Mileage in km	Engine Number	VI Number	COMPLAINT	Preliminary analysis by VW/Bosch	CAUSE ANALYSIS Bosch	Fault pattern	
55	28.756	CJA010361	3VWPL7AJ1AM[redacted]	Metal chips in fuel system	DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
56	18.121	CJA024847	3VWPL7AJXAM[redacted]	Metal chips in fuel system	DTD - Metal wear in metering unit - pump chamber and screen		DTD	10
57	7.375	CJA056043	3VWPL7AJ7AM[redacted]	does not start- P0087-Fuel system pressure too low	DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
58	8.084	CJA046361	3VWPL7AJ8AM[redacted]	P0087- fuel system pressure too low	Connector to HP pump broken - v.m. DTD	accompanying components are not analyzed because metal chips are in the system	DTD	10
59	15.976	CJA016478	3VWPL8AJ3AM[redacted]	P0087- fuel system pressure too low does not start - lamp on	DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
60	4.868	CJA051563	3VWTL7AJ2AM[redacted]	P0087- fuel system pressure too low	DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
61	787	CJA025097	3VWTL8AJ4AM[redacted]	Metal chips in fuel system	no metal chips in metering unit found, filter checked - Particles suspected			10
62	3.112	CJA056466	3VWTL7AJ2AM[redacted]	no output	no metal chips in metering unit found, filter checked - Particles suspected	For further analysis the 4 injectors were given to Bosch		10
63	10.234	CJA041107	3VWPL7AJ5AM[redacted]	Metal chips in fuel system	no metal chips in metering unit found, filter checked - Particles suspected			10
64	15.542	CJA019335	3VWPL7AJ4AM[redacted]	P0087- fuel system pressure too low does not start - lamp on	DTD - Metal wear in metering unit - pump chamber and screen		DTD	10
65	15.293	CJA005671	3VWPL7AJXA[redacted]	P0087- and metal chips in system	DTD - Metal wear in metering unit - pump chamber and screen		DTD	10
66	2.931	CJA026490	3VWPL7AJ1AM[redacted]	Does not start - electr. fault	DTD - Metal wear in metering unit - pump chamber and screen		DTD	10
67	12.389	CJA035025	3VWTL7AJXAM[redacted]	P0087- fuel system pressure too low - 5 fault	no metal chips in metering unit found, filter checked - Particles suspected			10
68	22.726	CJA003401	3VWAL8AJ4AM[redacted]	Does not start - lamp on	DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
69	8.953	CJA033742	WVWDM7AJ4A[redacted]	P0087- fuel system pressure too low metal chips in the filter	DTD - Metal wear in metering unit - pump chamber and screen		DTD	10
70	23	CJA056684	3VWAL7AJ7AM[redacted]	P0087- fuel system pressure too low	no metal chips in metering unit found, filter checked - Particles suspected			10
71	20.922	CJA017951	3VWAL7AJ8AM[redacted]	Metal chips in fuel system, P0138	DTD - Metal wear in metering unit - pump chamber and screen	For further analysis the 4 injectors were given to Bosch	DTD	10
72	7.684	CJA023120	3VWAL7AJXAM[redacted]	no output	no metal chips in metering unit found, filter checked - Particles suspected			10
73	11.335	CJA042927	3VWRL7AJ0AM[redacted]	P0087/P0089- fuel System pressure too low-5fault(s)	DTD - Metal wear in metering unit - pump chamber and screen		DTD	10
74	20.902	CJA023595	WVWNM7AJ9A[redacted]	Metal chips in fuel system	no metal chips in metering unit found, filter checked - Particles suspected	For further analysis the 4 injectors were given to Bosch		10
75	19.355	CJA015510	3VWRL7AJ5AM[redacted]		DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
76	42.541	CJA003123	3VWAL7AJ0AM[redacted]	Engine does not start	DTD - Metal wear in metering unit - pump chamber and screen		DTD	10
77	9.280	CJA037049	3VWRL7AJ3AM[redacted]	P0087- fuel system pressure too low does not start - lamp on	DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
78	38.984	CJA003834	3VWRL7AJ6AM[redacted]	Does not start	DTD - Metal wear in metering unit - pump chamber and screen	accompanying components are not analyzed because metal chips are in the system	DTD	10
79	10.156	CJA018611	3VWRL7AJ4AM[redacted]	Starts poorly - metal chips in the filter	no metal chips in metering unit found, filter checked - Particles suspected			10
80	5.882	CJA025311	3VWTL7AJ9AM[redacted]	P0087- fuel system pressure too low	no metal chips in metering unit found, filter checked - Particles suspected	Pressure control valve handed over to Bosch for analysis		10
81	13.694	CJA014411	3VWTLAJ1AM[redacted]	P0087- fuel system pressure too low	DTD - Metal wear in metering unit - pump chamber - delivered without metering unit	accompanying components are not analyzed because metal chips are in the system	DTD	10
82	38.082	CJA011934	3VWTL7AJ3AM[redacted]	Removed through engine replacement Complaint unknown	no metal chips in metering unit , HP pump replacement through engine replacement			10





EA11003EN-00757[0]

From: Non-responsive content removed
To:
CC:
Date: 8/3/2010, 7:00:13 AM
Subject: FW: AoA Q7 TDI Launch Telko
Attachments: TDI High Pressure Fuel Pump Failures.xls
Non-responsive content removed

Hello

FYI see pump damage. I have never seen so many before.

Best regards,

Non-responsive content removed

From: Non-responsive content removed
Sent: Tuesday, August 03, 2010, 12:17 AM
Non-responsive content removed

Subject: AoA Q7 TDI Launch Telko
Time: Tuesday, 3rd August 2010 03:30-04:30 PM (GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna.
Location: Auburn Hills Participants - A5 Conf Room

Meeting will be changed to every other week starting Monday March 10. Meeting data will be sent beforehand.

Audio Conference Information:
Bridge Name: vwoaa500
Participant Code: 999999

EA11003EN-00757[1]

Bridge Dial-in Number: 248-754-6600

Repair Authorization (obligation to inform) is now over!

Agenda for WK31
(new issues in red)
(open issues in black)

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E[redacted]

9 x High pressure fuel pump failure, TOW IN, 1790 miles, no DTC, WA1AM74L89D[redacted], WA1AM74LX9D[redacted]1 (9237 miles) , WA1VMAFE3AD[redacted] (5904 miles, MY10, metal shavings in filter, under investigation), WA1VMAFE3AD[redacted], 5904 miles, MY10, under investigation, WA1AM74LX9D[redacted], 10705, under investigation, WA1VMAFE9AD[redacted](under investigation, no signs of contaminated fuel, metal found in fuel system). NEW WA1VMAFE7AD[redacted]metal found in filter and Mprop, no signs of fuel contamination WARRANTY CLAIM, WA1CM74L69D[redacted], rust, sand, and metal found in filter housing, Will not be claimed under warranty. WA1AM74L99D[redacted] metal found in filter, checking Mprop, WARRANTY CLAIM

[redacted]

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VAS 5051B **Diagnosis log** 19.07.201011:49

NOTE:
The stylesheet file version does not match this file version.:
XSL V.75 / XML V.78

Protocol display can be inconsistent

Workshop code:
08347944403078

Version:
Base V18.00.00 29/04/2010
Audi V18.20.00 19/05/2010

Dealership identifier:
myauto

License plate:
[redacted]

Vehicle Identification Number (VIN):
WA1AM74L49D[redacted]

Vehicle:

Marque:	Audi
Type:	Audi Q7 USA/CDN 2007>
Model year:	2009 (9)
Body version:	SUV
Engine code:	CATA 3.0l TDI / 165 kW

Diagnostic time expenditure (TU): 62

Event memory 1:

01 - Engine Electronics
4L0910401Q
3.0TDI EDC17G000AG
Coding long
Dealer number 03354
4L0907401B
H01
0050

1Event(s) detected

08251 P203B 000
Reductant Level Sensor Circuit Range/Performance
Sporadic

Ambient requirements:

Standard values:	
Date	15.07.10
Time	18:08:37
Mileage	0015826
Priority	2
Malfunction occurrence counter	1
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	940 /min
Value 2	13.9 V
Value 3	49.0 %
Value 4	26.1 °C
Value 5	4.9 bar
Value 6	29.7 °C
Value 7	0.360 V

0F - Radio Tuner Digital, SIRIUS
4E0910593M
SDAR SIRIUS H07
Coding 100
Dealer number 31414
4E0035593F
000
0160

1Event(s) detected

02635 000 Note
Tuner not enabled/activated

Ambient requirements:

Standard values:	
Date	13.07.10
Time	11:24:30
Mileage	0015732
Priority	7
Malfunction occurrence counter	1

Unlearning counter / Driving cycle 73

6F - Central Comfort System II
4L0910290A
ILM HINTEN 2 H05
Coding 3595
Dealer number 31414
4L0907290A
H05
0060

4L0910591
J_245_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_394_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_392_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

0Event(s) detected

02 - Automatic Transmission 09D
09D927750FD
AL 750 6A
Coding 504
Dealer number 31414
09D927750FD
H78
1474

0Event(s) detected

03 - ABS/ESP Mark 25 E1
4L0910517B
ESP ALLRAD MK25E1
Coding 99473
Dealer number 31414
4L0614517D
H30
0010

0Event(s) detected

05 - Access/Start Authorization System
4F0910852B
FBSAUDIC6 ELV H05
Coding 131
Dealer number 31414
4F0905852D
H05
0100

4F0910132J
FBSAUDIC6 EZS H03
Dealer number 00000
4F0909135J

0020

4F0910220A
FBSAUDIC6 IDG H01
Dealer number 00000
4F0837220N

0040

0Event(s) detected

07 - Display/operating unit high
4L0910732R
Interfacebox H43
Coding 2003
Dealer number 31414
4E0035729A
000
4610

4L0910609
E0380 BedienteilH01
Dealer number 00000
4L0919610B
000
0060

0Event(s) detected

08 - Climate Control, Comfort
4L0910043B
KLIMABETAETIGUNGH07
Coding 54
Dealer number 31414
4L0820043N

0040

0Event(s) detected

09 - Vehicle Electrical System
4F0910279N
ILM Fahrer H22
Coding 11103
Dealer number 31414
4F0907279
000
0320

4L1910113
Wischer AU716 H16
Coding 64792
Dealer number 31414
4L1955119A

0100

8K0910557
REGENLICHTSENSORH04
Coding 150059
Dealer number 31414
8K0955559B

0003

0Event(s) detected

0E - CD Changer (pos. 1)
4L0910110B
MP3-Changer H46
Dealer number 00000
4L0035110
046
0390

0Event(s) detected

15 - Airbag 8R
4L0910655A
73 AIRBAG AUDI8RH43
Coding 14131
Dealer number 31414
4L0959655B
H43
0230

4L0910339A
BF-Gewichtsens. H03
Dealer number 00000
4L0959339A

0030

0Event(s) detected

16 - Steering Wheel Electronics
4F0910549A
J0527
Coding 2242
Dealer number 31414
4F0953549C
H06
0530

XXXXXXXXXXX
E0221 H02
Dealer number 00000

0030

0Event(s) detected

17 - Instrument Cluster expanded ESI
4L0920981Q
KOMBIINSTR.
Coding long
Dealer number 31414
4L0920981Q
H06
0135

0Event(s) detected

19 - Data Bus On Board Diagnostic Interface (Gateway)
4F0907468K
GW-BEM 4CAN-M
Coding long
Dealer number 31414
4F0907468F
H06
0025

8K0915181D
J367-BDM
Coding ----
Dealer number ----
8K0915181D
H07
0107

0Event(s) detected

1E - External Audio Source Connection (pos. 2)
4E0035785F
SG ext.Player
Coding long
Dealer number 00000
4E0035785C

H15
0850

0Event(s) detected

36 - Seat Adjustment, Driver's Side
4F0959760C
MEM-FS
Coding long
Dealer number 31414
4F0959760C
H08
0062

0Event(s) detected

37 - Navigation System High
4E0910888M
MNS US H52
Dealer number 31414
4E0919887M
000
1100

0Event(s) detected

42 - Door Electronics, Driver's Side
4F0959793R
TSG FA
Coding long
Dealer number 31414
8K0959793D
H11
0250

0Event(s) detected

46 - Comfort System Central Control Module w/anti-theft w.
4L0910289F
Komfortgeraet H08
Coding 3438621
Dealer number 31414
4L0907289C
60
0060

1K0951605C
LIN BACKUP HORN H03
Dealer number 00000

--
1301

0Event(s) detected

47 - Digital Sound Package (Bose)
4L0910223G
DSP-High AU716 H03
Coding 12
Dealer number 31414
4L0035223D
OD_
0150

0Event(s) detected

4F - Vehicle Electrical System 2
4F0910280
ILM Beifahrer H13
Coding 12001
Dealer number 31414
4F0907280D
0100

0Event(s) detected

52 - Door Electronics, Passenger's Side
4F0959792R
TSG BF
Coding long
Dealer number 31414
8K0959792D
H11
0250

0Event(s) detected

56 - Radio (included in -J523-)
4E0910541T
TUNER EU/US/RDW H42
Coding 2
Dealer number 31414
4E0035542
000
0630

0Event(s) detected

62 - Door Electronics, left rear
4F0959795M
TSG HL
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

65 - Tire Pressure Monitoring (TPM) Low-Line

4F0910273B
Reifendruck 3 H05
Coding 62424
Dealer number 31414
4F0907273A
050
0100

0Event(s) detected

6C - Rear View Camera System
4L0910441B
J772__Rearview
Coding 1021201
Dealer number 31414
4L0907441B
H03
0030

0Event(s) detected

6D - Rear Lid Electronics
4L0910945
ValeoHeckdeckel H28
Dealer number 98765
4L0827851C
H28
0290

4L0910946
ValeoHeckdeckel H28
Dealer number 98765
4L0827852C
H28
0290

0Event(s) detected

72 - Door Electronics, right rear
4F0959795M
TSG HR
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

76 - Acoustic Parking Aid, 8 channel
4L0910283A
Parkhilfe 8-Kan H02
Coding 221346
Dealer number 31414
4L0919283A
H02
0400

0Event(s) detected

77 - Telephone (cellular phone base plate)
4F0910336H
Handyorb2 H20
Coding 10900
Dealer number 31414
4E0862335
000
1130

0Event(s) detected

Event memory 2:

Steps completed:

No.	Mask / Test Name / Function / Test step	Result
1.	DiagnosisStart	19.07.201011:17
2.	Vehicle Identification	
3.	Vehicle System Test	
4.	Vehicle system test completed 1	
5.	Function Test	
6.	Function Test 1: Start_Protokoll_laufleistung_21	OK
7.	Function Test	
8.	Function Test 2: GWK_Start_Hinweis_21	OK
9.	Function Test	
10.	Function Test 3: SYS___4L_____1_0506_21_Hauptprogramm_Meldepflicht	OK
11.	Function Test	
12.	Function Test 4: J623____23_____1_1208_21_NMK	OK
13.	Function Test	
14.	Function Test 5: J285____90_____1_1008_21_historiendaten_lesen	OK
15.	Function Test	
16.	Function Test 6: Unberechtigte_FSP_4L_2_1007_21	OK
17.	Fault Memory Contents	
18.	Test Plan 1	
19.	Function Test 7: G684_4L_26_CCMA_1_0908_21 G684-Reducing Agent Tank Sensor	X
20.	Test Plan 2	
21.	Function / Component Selection	
22.	Fault Memory Contents	
23.	Test Plan 3	
24.	Function / Component Selection	
25.	Test Plan 4	
26.	Function Test 8: G684_4L_26_CCMA_1_0908_21 G684-Reducing Agent Tank Sensor	?
27.	Function Test 9: V155_4L_55_____1_0605_21_USA V155-Motor for fuel tank lid unlock (RG.55)	OK
28.	Test Plan 5	
29.	Test Plan 6	
30.	Function Test 10: J393_4L_57_____1_0405_21_Stellglied_selektiv J393-Comfort System Central CM, selective output DTM	?

31. Vehicle system test completed 2
32. Function Test
33. Function Test 11: Katalysatordiagnose_USA X
34. Function Test
35. Function Test 12: J533_B8_27_____1_0408_21_historiendaten OK
36. Function Test
37. Function Test 13: IUMPR_____2_1003_21_Datenlesen X
38. Function Test
39. Function Test 14: Diagnoseprotokoll_senden_21 OK

Test Plan1:

System Test Plan
Rtd6000 - (02635) Tuner not enabled/activated -
- R146-Satellite Radio, tuner not enabled/activated
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
- G684-Reducing Agent Tank Sensor

Test Plan2:

System Test Plan
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
X G684-Reducing Agent Tank Sensor

Test Plan3:

System Test Plan
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
? G684-Reducing Agent Tank Sensor

Test Plan4:

User Test Plan
- V155-Motor for fuel tank lid unlock (RG.55)

Test Plan5:

User Test Plan
OK V155-Motor for fuel tank lid unlock (RG.55)
- J393-Comfort System Central CM, selective output DTM

Test Plan6:

System Test Plan
Rtd6000 - (02635) Tuner not enabled/activated -
- R146-Satellite Radio, tuner not enabled/activated
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
? G684-Reducing Agent Tank Sensor
User Test Plan
OK V155-Motor for fuel tank lid unlock (RG.55)
? J393-Comfort System Central CM, selective output DTM

Function Test1: Start_Protokoll_laufleistung_21

Test Step / Action	Outputs	Result
Test Step : Determine mileage from SGBD		
Diagnosis		OK
		OKAY
		SCH6000
Diagnosis		OK
		16080
		OKAY
Diagnosis		OK
		OKAY
Test Step : Supplement protocol distance		
Function Test		**OK**

Function Test2: GWK_Start_Hinweis_21

Test Step / Action	Outputs	Result
Test Step : Note for warranty claim		
Signal	YZ***NOTE:*** *When exiting Guided Fault Finding the diagnostic protocol is automatically transmitted online.* *The diagnostic protocol must contain the correct order number and Vehicle Identification Number (VIN). If no diagnostic protocol is available, we reserve the right to reject the warranty claim.* ***The diagnostic connector may only be disconnected prematurely when instructed to do so!***	
Input	- Enter correct work order number:	
Test Step : Note for test requirements		
Signal	**General test requirements:** I Battery voltage OK. I Fuses OK. A *Wiring diagram* I Ground (GND) connections tight and without corrosion or oxidation *(loosen and clean GND connections)*. A *Wiring diagram* I Electrical wiring as well as test instrument leads should only be connected or disconnected with the ignition switched off.	
Test Step : Notes on Start/Stop System		
Signal	**Safety precautions for vehicles with start/stop system.** ST ***WARNING!*** *Risk of personal injury due to automatic engine start on vehicles with start/stop system.* J *On vehicles with activated start/stop system (recognizable by a message in the instrument cluster) the engine may start automatically, as required.* J *When working on the vehicle, make sure the start/stop system is deactivated (switch ignition OFF, if required switch ignition ON again).*	
Beginning sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	
Test Step : Reading Vehicle Identification Number (VIN)		
Diagnosis		OK
		1
		OKAY

		MOT6000
Diagnosis		OK
		WA1AM74L49D[redacted]
		OKAY
End sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	OK
Function Test		**OK**

Function Test3: SYS___4L____1_0506_21_Hauptprogramm_Meldepflicht

Test Step / Action	Outputs	Result
Beginning sub-function:	sys_____1_0506_21_MPF2006_1	
Test Step : Importer		
End sub-function:	sys_____1_0506_21_MPF2006_1	OK
Beginning sub-function:	sys_____1_1206_21_MPF2006_6	
Test Step : Importer		
End sub-function:	sys_____1_1206_21_MPF2006_6	OK
Beginning sub-function:	sys_____1_0407_21_MPF2007_4	
Test Step : Importer		
End sub-function:	sys_____1_0407_21_MPF2007_4	OK
Beginning sub-function:	sys_____1_0408_21_MPF2008_3	
Test Step : Importer		
End sub-function:	sys_____1_0408_21_MPF2008_3	OK
Beginning sub-function:	sys_____1_0309_21_MPF2009_1	
Test Step : Importer		
Test Step : Dealer number		
Test Step : Assigning DTC memory		
End sub-function:	sys_____1_0309_21_MPF2009_1	OK
Beginning sub-function:	sys_____1_1009_21_MPF2009_7	
Test Step : Importer		
End sub-function:	sys_____1_1009_21_MPF2009_7	OK
Function Test		**OK**

Function Test4: J623___23____1_1208_21_NMK

Test Step / Action	Outputs	Result
Test Step : Selection		
Test Step : V6 TDI		
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		21
		21
		21
Diagnosis		OK
Diagnosis		OK
		11110111
		00111111
Diagnosis		OK
Diagnosis		OK
		-34
		-10
		-14
Diagnosis		OK
Diagnosis		OK
		-15
		-5
		-11
Diagnosis		OK
Diagnosis		OK
		-28
		-7
		-10
Diagnosis		OK
Diagnosis		OK
		-15
		2
		-5
Diagnosis		OK
Diagnosis		OK
		-30
		-8
		-10
Diagnosis		OK
Diagnosis		OK
		-23
		-7
		-10
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		BPG-810 21.02.09
		31H01--- 1328 0074
Diagnosis		OK
Diagnosis		OK
		WA1AM74L49D[redacted]
		<>
Diagnosis		OK
Diagnosis		OK
		8583344403354
		02.06.10 <> <> <> <>

Diagnosis	OK
Diagnosis	OK
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	70.80
	-277.30
	35.40
Diagnosis	OK
Test Step : V6 TDI BIN5 KWP	
Diagnosis	OK
	70.80
	354.00
	47.20
	35.40
Diagnosis	OK
Diagnosis	OK
	0
	00000110
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	00000000
	2.68
Diagnosis	OK
Diagnosis	OK
	375
	373
	377
	414
Diagnosis	OK
Diagnosis	OK
	00001100
	01100100
	00011000
	00000000
Diagnosis	OK
Diagnosis	OK
	1.02
	1.01
	1.02
	1.00
Diagnosis	OK
Diagnosis	OK
	1.00
	1.00
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	40.50
Diagnosis	OK
Function Test	**OK**

Function Test5: J285____90_____1_1008_21_historiendaten_lesen

Test Step / Action Outputs Result

Test Step : Extended Service Interval - reading history data

Diagnosis OK

0FF0206C4FF001264FF001F00FF03D74FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Diagnosis OK

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Function Test OK

Function Test6: Unberechtigte_FSP_4L_2_1007_21

Test Step / Action	Outputs	Result
Beginning sub-function:	unberechtigte_fsp_4l_1_0108_21	
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
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Test Step : Checking DTC memory
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Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Output unauthorized malfunction
End sub-function: unberechtigte_fsp_4l_1_0108_21 OK
Function Test **OK**

Function Test7: G684_4L_26_CCMA_1_0908_21

Test Step / Action	Outputs	Result
Test Step : Safety precautions		
Signal	**- Observe the following when working on the reduction agent system:** STWARNING! I *The pressure lines of the reduction agent system may be under pressure:* *In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.* I *Skin irritation caused by reducing agent* *Use hand and eye protection!*	
Signal	**- When working with reducing agent, observe the following:** STWARNING! I *Avoid direct skin and eye contact!* *Use hand and eye protection!* I *If reducing agent came in contact with skin, wash skin with soap and water.* I *If reducing agent gets in the eye, flush eye several minutes with water.* I *Do not inhale or swallow reducing agent !* I *In the event that reducing agent was swallowed, drink a lot of water and locate immediately a clinic for accidents or inform a Doctor.*	
Test Step : .		
Test Step : P203B		
Test Step : Reducing Agent Temperature Sensor, value		
Signal	- Make sure the vehicle is standing on a level surface for further testing. - Now reconnect all harness connectors that were disconnected in the previous test steps. - Switch ignition on.	
Diagnosis		OK OKAY 26.10
Diagnosis		OK
Signal	Measuring value on temperature sensor: 26.1 V Specified value: larger than 0 °C The temperature is OK.	
Test Step : 1 Measuring value Tank sensor		
Diagnosis		OK OKAY 1.88
Diagnosis		OK
Test Step : Checking harness connnectors		
Question	- Switch ignition off. - Check whether the electrical harness connector on the Tank sensor is connected and properly engaged. - Check also all other electrical connectors in the relevant wire path. **Were all harness connectors attached and properly engaged?**	Yes
Question	- Check harness connector on Tank sensor for:I Bent, pushed-in pins I Loose contact I Contact corrosion, water incursion. - Check also all other electrical connectors in the relevant wire path. **Are the connectors OK?**	Yes
Signal	An exact malfunction localization is not possible! Possible malfunction causes: - One or several wire connections damaged - Reducing agent tank sensor - Reducing agent metering system control module faulty - Engine control module faulty	
Signal	YZ ***NOTE:*** *After the function test has been completed, do not forget to reverse all steps that were necessary for the function test (for example: disconnected harness connectors, pulled out fuses etc.) and therefore re-establishing the vehicles original condition.*	
Question	K ***NOTE:*** *If reducing agent was drained, or the Active tank (not Passive tank) or the Reducing agent pump or the Reducing agent injector or a line for reducing agent or the ECM was replaced, then the* ***<Adapt Reducing Agent Tank adapt. values>*** *function must be performed.* **Is/was one of the listed works performed or is/was a component replaced?**	No

Function Test **X**

Function Test8: G684_4L_26_CCMA_1_0908_21

Test Step / Action	Outputs	Result
Test Step : Safety precautions		
Signal	**- Observe the following when working on the reduction agent system:** STWARNING! I *The pressure lines of the reduction agent system may be under pressure:* *In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open*	

carefully.
I Skin irritation caused by reducing agent
Use hand and eye protection!
Signal **- When working with reducing agent, observe the following:**
STWARNING!
I Avoid direct skin and eye contact!
Use hand and eye protection!
I If reducing agent came in contact with skin, wash skin with soap and water.
I If reducing agent gets in the eye, flush eye several minutes with water.
I Do not inhale or swallow reducing agent !
I In the event that reducing agent was swallowed, drink a lot of water and locate immediately a clinic for accidents or inform a Doctor.

Test Step : .
Test Step : P203B
Test Step : Reducing Agent Temperature Sensor, value
Signal - Make sure the vehicle is standing on a level surface for further testing.
- Now reconnect all harness connectors that were disconnected in the previous test steps.
- Switch ignition on.
Diagnosis — Instruction interrupted
Diagnosis — OK
OKAY
26.10
Diagnosis — OK
Signal Measuring value on temperature sensor: 26.1 V
Specified value: larger than 0 °C
The temperature is OK. — Instruction interrupted

Function Test — **?**

Function Test9: V155_4L_55_____1_0605_21_USA

Test Step / Action | Outputs | Result

Test Step : Short description of test
Signal **With this test program you can check the following component/system: Motor for fuel tank lid unlock -V155-**
Required test equipment:
I If necessary, VAG 1594/13 Clamps Test Probes from VAG 1594 A Connector Test Kit
Beginning sub-function: sys_4l_____1_0305_21_fehlerspeicher
Test Step : Checking DTC memory
Signal DTC memory will be checked.
- Please wait B
Test Step : Init. Malfunction location general
Test Step : Init. Malfunction location rear (ILM I) -J393-
Test Step : Init. Malfunction location (ILM) II -J773-
Test Step : Init. Malfunction location J605-Left High/Low Beam
Test Step : Initialization malfunction type 1
Test Step : Initialization malfunction type 2
Test Step : Defining numbers of DTC entries
Diagnosis — OK
OKAY
0
Test Step : No DTC memory entry
Signal The DTC memory of the **Comfort system central control module -J393-** stores no malfunction.
- Press **<Done>** to continue with program.
End sub-function: sys_4l_____1_0305_21_fehlerspeicher — OK
Test Step : Designation of malfunction type
Test Step : No malfunction available
Signal **There is no malfunction. Further procedure:**
- Check function of **Motor for fuel tank lid unlock -V155-** via an output diagnostic test.
- Check voltage supply of **Comfort system central control module -J393-** and of **Motor for fuel tank lid unlock -V155-** .
- Check wiring for open/short circuit/contact corrosion according to wiring diagram.
- Check harness connector for:
I Correct seating or loose contact;
I Bent, pushed-in pins;
I Widened connector terminals;
I Water entry, contact corrosion;
I Pinched or scraped wiring.
YZ ***NOTE:*** *In the following output DTM is added to the test plan.*
- Start program from the test plan.
Signal END OF TEST

Function Test — **OK**

Function Test10: J393_4L_57_____1_0405_21_Stellglied_selektiv

Test Step / Action | Outputs | Result

Test Step : Short description of test
Signal **With this test program you can perform the following function in the Comfort system central control module -J393-: Selective output Diagnostic Test Mode (DTM)**
YZ ***NOTE:*** *Due to different coding and installation possibilities in the **Comfort system central control module -J393-**, only the participants that are respectively coded in the **Comfort system central control module -J393-** are activated.*
Test Step : * Pre-assignment of test steps
Test Step : * Pre-assignment of output diagnostic tests
Test Step : Overview actuator inquiry
Question **- Select an actuator block** — - 1 -
1. Actuator activation 1 to 7
I Central Locking -SAFE- Indicator Lamp -K133-
I Closing central locking signal
I Activation of safe feature of doors
I Open central locking signal
I Locking fuel tank lid

	I Unlocking fuel tank lid	
	I Left Brake Lamp -M9-	
	2. Actuator activation 8 to 14	
	I Right Brake Lamp -M10-	
	I High-mount Brake Light -M25-	
	I Left tail light lamp	
	I Left Parking Lamp -M43-	
	I Right tail light lamps	
	I Right Parking Lamp -M44-	
	I Left Rear Turn Signal Lamp -M6-	
	3. Actuator activation 15 to 21	
	I Right Rear Turn Signal Lamp -M8-	
	I License Plate Light -X-	
	I Luggage Compartment Light -W3-	
	I Left Rear Footwell Light -W45-	
	I Right Rear Footwell Light -W46-	
	I Activation of rear lid remote control	
	I Activation signal for heated rear windows signal	
	4. Actuator activation 22 to 28	
	I Interior lighting activation	
	I Sunroof comfort opening	
	I Sunroof comfort closing	
	I Left lamp in rear lid	
	I Right lamp in rear lid	
	I Left rear lamp in bumper	
	I Right rear lamp in bumper	
	5. Cancel	
Test Step : Actuator inquiry 1 - 7		
Question	**Which actuator should be activated?**	- 6 -
	(Actuator selection 1 to 7)	
	1. Warning light for central locking -SAFE- -K133-	
	2. Lock central locking signal	
	3. Activation of safe-locks of doors	
	4. Unlock central locking signal	
	5. Locking fuel filler lid	
	6. Unlocking fuel filler lid	
	7. Left Brake Light -M9-	
	8. back	
Test Step : * Allocations of actuator codes of variables a		
Test Step : Selective test step		
Diagnosis		OK
		OKAY
Signal	In this test step occurs an activation of the fuel tank lid.	
	The fuel tank lid is unlocked.	
Diagnosis		OK
Test Step : Without measuring values/messages		
Signal	**Active actuator:** Unlocking fuel filler flap	
	- Press **-Done-** or D to continue in test program.	
Diagnosis		OK
Test Step : Overview actuator inquiry		
Question	**- Select an actuator block**	- 1 -
	1. Actuator activation 1 to 7	
	I Central Locking -SAFE- Indicator Lamp -K133-	
	I Closing central locking signal	
	I Activation of safe feature of doors	
	I Open central locking signal	
	I Locking fuel tank lid	
	I Unlocking fuel tank lid	
	I Left Brake Lamp -M9-	
	2. Actuator activation 8 to 14	
	I Right Brake Lamp -M10-	
	I High-mount Brake Light -M25-	
	I Left tail light lamp	
	I Left Parking Lamp -M43-	
	I Right tail light lamps	
	I Right Parking Lamp -M44-	
	I Left Rear Turn Signal Lamp -M6-	
	3. Actuator activation 15 to 21	
	I Right Rear Turn Signal Lamp -M8-	
	I License Plate Light -X-	
	I Luggage Compartment Light -W3-	
	I Left Rear Footwell Light -W45-	
	I Right Rear Footwell Light -W46-	
	I Activation of rear lid remote control	
	I Activation signal for heated rear windows signal	
	4. Actuator activation 22 to 28	
	I Interior lighting activation	
	I Sunroof comfort opening	
	I Sunroof comfort closing	
	I Left lamp in rear lid	
	I Right lamp in rear lid	
	I Left rear lamp in bumper	
	I Right rear lamp in bumper	
	5. Cancel	
Test Step : Actuator inquiry 1 - 7		
Question	**Which actuator should be activated?**	- 6 -
	(Actuator selection 1 to 7)	
	1. Warning light for central locking -SAFE- -K133-	
	2. Lock central locking signal	
	3. Activation of safe-locks of doors	
	4. Unlock central locking signal	
	5. Locking fuel filler lid	
	6. Unlocking fuel filler lid	
	7. Left Brake Light -M9-	
	8. back	
Test Step : * Allocations of actuator codes of variables a		
Test Step : Selective test step		
Diagnosis		OK
		OKAY
Signal	In this test step occurs an activation of the fuel tank lid.	
	The fuel tank lid is unlocked.	
Diagnosis		OK
Test Step : Without measuring values/messages		
Signal	**Active actuator:** Unlocking fuel filler flap	
	- Press **-Done-** or D to continue in test program.	
Diagnosis		OK
Test Step : Overview actuator inquiry		
Question	**- Select an actuator block**	- 1 -

1. Actuator activation 1 to 7
I Central Locking -SAFE- Indicator Lamp -K133-
I Closing central locking signal
I Activation of safe feature of doors
I Open central locking signal
I Locking fuel tank lid
I Unlocking fuel tank lid
I Left Brake Lamp -M9-
2. Actuator activation 8 to 14
I Right Brake Lamp -M10-
I High-mount Brake Light -M25-
I Left tail light lamp
I Left Parking Lamp -M43-
I Right tail light lamps
I Right Parking Lamp -M44-
I Left Rear Turn Signal Lamp -M6-
3. Actuator activation 15 to 21
I Right Rear Turn Signal Lamp -M8-
I License Plate Light -X-
I Luggage Compartment Light -W3-
I Left Rear Footwell Light -W45-
I Right Rear Footwell Light -W46-
I Activation of rear lid remote control
I Activation signal for heated rear windows signal
4. Actuator activation 22 to 28
I Interior lighting activation
I Sunroof comfort opening
I Sunroof comfort closing
I Left lamp in rear lid
I Right lamp in rear lid
I Left rear lamp in bumper
I Right rear lamp in bumper
5. Cancel

Test Step : Actuator inquiry 1 - 7
Question **Which actuator should be activated?** - 5 -
(Actuator selection 1 to 7)
1. Warning light for central locking -SAFE- -K133-
2. Lock central locking signal
3. Activation of safe-locks of doors
4. Unlock central locking signal
5. Locking fuel filler lid
6. Unlocking fuel filler lid
7. Left Brake Light -M9-
8. back

Test Step : * Allocations of actuator codes of variables a
Test Step : Selective test step
Diagnosis OK
OKAY
Signal In this test step occurs an activation of the fuel tank lid.
The fuel tank lid is locked.
Diagnosis OK
Test Step : Without measuring values/messages
Signal **Active actuator:** Locking fuel filler flap
- Press **-Done-** or D to continue in test program.
Diagnosis OK
Test Step : Overview actuator inquiry
Question **- Select an actuator block** Instruction interrupted
1. Actuator activation 1 to 7
I Central Locking -SAFE- Indicator Lamp -K133-
I Closing central locking signal
I Activation of safe feature of doors
I Open central locking signal
I Locking fuel tank lid
I Unlocking fuel tank lid
I Left Brake Lamp -M9-
2. Actuator activation 8 to 14
I Right Brake Lamp -M10-
I High-mount Brake Light -M25-
I Left tail light lamp
I Left Parking Lamp -M43-
I Right tail light lamps
I Right Parking Lamp -M44-
I Left Rear Turn Signal Lamp -M6-
3. Actuator activation 15 to 21
I Right Rear Turn Signal Lamp -M8-
I License Plate Light -X-
I Luggage Compartment Light -W3-
I Left Rear Footwell Light -W45-
I Right Rear Footwell Light -W46-
I Activation of rear lid remote control
I Activation signal for heated rear windows signal
4. Actuator activation 22 to 28
I Interior lighting activation
I Sunroof comfort opening
I Sunroof comfort closing
I Left lamp in rear lid
I Right lamp in rear lid
I Left rear lamp in bumper
I Right rear lamp in bumper
5. Cancel

Function Test **?**

Function Test11: Katalysatordiagnose_USA

Test Step / Action	Outputs	Result
Test Step : Control module identification		
Signal	Data to generate the diagnosis is being read! - Please wait... B	
Diagnosis		OK OKAY MOT6000
Diagnosis		Instruction interrupted
Beginning sub-function:	sys01__24_____1_0706_21_Katalysatordiagnose_USA	
Test Step : Service measuring values		
Test Step : Measuring values TE		
Test Step : Master: Read measuring value block		

```
    Diagnosis                                                          OK
                                                                        0
                                                                        0
                                                                        0
                                                                        0
    Diagnosis                                                          OK
Test Step : Slave
Test Step : Evaluation
Test Step : Evaluation
Test Step : Supplement protocol master
Test Step : Supplement protocol slave
    End sub-function:     sys01__24_____1_0706_21_Katalysatordiagnose_USA       X
Function Test                                                           X

Function Test12: J533_B8_27_____1_0408_21_historiendaten

Test Step / Action       Outputs                                       Result
    Beginning sub-        j533_8k_90_____2_0906_21_histdaten_auslesen
function:
Test Step : Model
Test Step : Reading history data
    Signal               Please wait!
                            ...Data is being read
    Diagnosis                                                          OK
                                                               2010-07-16-
                                                 14:26*01.8*01*02489***
                                                               2010-07-15-
                                                          14:20*00.0*01**
                                                               2010-07-13-
                                                          13:51*02.2*01**
                                                               2010-07-12-
                                                          12:27*05.4*01**
                                                               2010-07-11-
                                                          12:27*24.0*01**
                                                               2010-07-10-
                                                          12:26*23.9*01**
                                                               2010-07-09-
                                                          12:26*23.9*01**
                                                               2010-07-16-
                                                 14:26*00.0*01*00000***
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                 00:00*00.0*00*00000***
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
                                                               2000-01-01-
                                                          00:00*00.0*00**
    Diagnosis                                                          OK
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                             -0-0-0-0-
                                                       0*0*00*00000**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
                                                           2000-01-01-
                                               00:00*0000*000*+00.00*0
                                                    -0-0-0-0-0*0*00**
    Diagnosis                                                          OK
                                                              2009-05-01-
                                                     13:50*4*0*078*068*-
                                                         20.57*0-0-0-0-0-
                                                      0*0*0*00.0*00.0**
                                                              2009-05-01-
                                                     13:37*4*0*074*064*-
                                                         23.39*0-0-0-0-0-
                                                      0*0*0*00.0*00.0**
                                                              2009-05-01-
```

```
                                              13:33*4*0*075*065*-
                                                  16.25*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              13:30*4*0*077*067*-
                                                  12.11*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              13:27*4*0*076*065*-
                                                  23.81*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              13:26*4*0*077*066*-
                                                  21.49*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              13:20*4*0*078*067*-
                                                  11.93*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              13:16*4*0*078*067*-
                                                  12.58*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              13:14*4*0*077*065*-
                                                  09.13*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              00:16*4*0*078*071*-
                                                  12.69*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-05-01-
                                              00:16*4*0*078*071*-
                                                  12.02*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-04-29-
                                              13:57*4*0*081*075*-
                                                  07.86*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-04-29-
                                              13:54*4*0*081*075*-
                                                  11.75*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-04-29-
                                              13:52*4*0*081*076*-
                                                  12.00*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
                                                     2009-04-29-
                                              13:45*4*0*082*077*-
                                                  11.79*0-0-0-0-0-
                                                0*0*0*00.0*00.0**
Diagnosis                                                       OK
                                        2009-03-04-
                                  12:33*01*8K0915105F
                                           *MLA*1926I0N
                                  *10008*02543*0000*0000*0000**
                                        2000-01-01-
                                     00:00*00*--------
                                          *XXX*-------
                                  *09997*00004*0000*0000*0000**
                                        2000-01-01-
                                     00:00*00*--------
                                          *XXX*-------
                                  *00000*00000*0000*0000*0000**
                                        2000-01-01-
                                     00:00*00*--------
                                          *XXX*-------
                                  *00000*00000*0000*0000*0000**
                                        2000-01-01-
                                     00:00*00*--------
                                          *XXX*-------
                                  *00000*00000*0000*0000*0000**
Diagnosis                                                       OK
               2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
   000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
               2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
   000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
               2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
   000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
               2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
   000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
               2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
   000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
Diagnosis                                                       OK
                                          2010-07-19-
                                 11:21*075*+23*+000.3*00.03**
                                          2010-07-19-
                                 08:12*079*+23*+000.3*00.02**
                                          2010-07-16-
                                 17:00*071*+32*+000.1*00.01**
                                          2010-07-16-
                                 14:33*072*+32*+023.7*01.64**
                                          2010-07-15-
                                 21:12*082*+31*+000.2*00.00**
                                          2010-07-15-
                                 18:00*076*+31*+005.1*01.84**
                                          2010-07-15-
                                 15:51*077*+29*+000.5*00.11**
                                          2010-07-15-
```

15:37*078*+29*+002.2*00.16**
2010-07-15-
15:21*080*+28*+000.2*00.01**
2010-07-15-
15:12*080*+28*+001.0*00.14**
2010-07-15-
14:55*078*+27*+000.7*00.03**
2010-07-15-
14:45*079*+27*+000.4*00.03**
2010-07-15-
14:22*072*+27*+002.4*00.16**
2010-07-14-
17:09*077*+30*+001.1*00.18**
2010-07-14-
16:51*074*+29*+001.1*00.12**
2010-07-14-
07:42*073*+27*+002.6*00.12**
2010-07-13-
19:06*077*+32*+000.1*00.00**
2010-07-13-
18:32*077*+32*+000.2*00.01**
2010-07-13-
15:21*071*+32*+007.1*00.58**
2010-07-13-
15:14*058*+30*+001.2*00.02**

Diagnosis OK

2010-07-19-
08:14*076*-
000.4*003.1*00.0*00.0**
2010-07-16-
17:01*079*-
002.2*063.0*00.0*00.0**
2010-07-16-
16:12*071*-
000.3*000.7*00.0*00.0**
2010-07-16-
16:12*072*-
000.1*000.0*00.0*00.0**
2010-07-15-
21:12*041*-
021.9*017.2*00.7*00.4**
2010-07-15-
19:51*082*-
001.4*001.3*00.0*00.0**
2010-07-15-
15:57*071*-
002.3*001.9*00.1*00.0**
2010-07-15-
15:47*077*-
000.3*000.0*00.0*00.0**
2010-07-15-
15:22*077*-
001.6*000.1*00.1*00.0**
2010-07-15-
15:21*080*-
000.2*000.0*00.0*00.0**
2010-07-15-
14:57*077*-
000.4*000.2*00.0*00.0**
2010-07-15-
14:47*078*-
001.0*000.1*00.0*00.0**
2010-07-15-
14:32*079*-
000.5*000.2*00.0*00.0**
2010-07-14-
17:20*068*-
003.2*020.9*00.1*00.0**
2010-07-14-
16:59*078*-
000.4*000.1*00.0*00.0**
2010-07-14-
07:50*071*-
000.6*009.0*00.0*00.0**
2010-07-13-
19:06*069*-
002.2*012.5*00.1*00.0**
2010-07-13-
18:32*077*-
001.4*000.5*00.1*00.0**
2010-07-13-
15:56*077*-
001.1*002.5*00.0*00.0**
2010-07-13-
15:15*055*-
001.5*000.0*00.0*00.0**

Diagnosis OK

2010-07-19-
11:24*1*28*00*00*06*2000
-01-01-00:00*01**
2010-07-13-
11:10*1*27*00*00*06*2000
-01-01-00:00*01**
2010-06-02-
09:47*1*26*00*00*06*2000
-01-01-00:00*01**
2009-03-04-
18:54*1*25*00*00*06*2000
-01-01-00:00*01**
2009-03-04-
18:53*1*24*00*00*06*2000
-01-01-00:00*01**

Diagnosis OK

2010-07-05-
19:46*096*093*074*068*02464*12.40*+21*01**
2010-06-20-
16:15*096*091*072*064*02386*12.40*+19*01**
2010-06-03-
17:37*095*092*062*054*02299*12.30*+25*01**

```
                                             2010-05-19-
                                      16:44*096*090*065*057*02184*12.30*+22*01**
                                             2010-05-05-
                                      16:40*096*090*064*054*02095*12.30*+18*01**
                                             2010-04-22-
                                      13:48*096*089*071*060*02020*12.40*+14*01**
                                             2010-04-08-
                                      12:55*096*091*069*055*01942*12.40*+10*01**
                                             2010-03-21-
                                      14:54*096*090*078*065*01864*12.50*+09*01**
                                             2010-03-07-
                                      14:33*096*087*068*048*01778*12.40*+04*01**
                                             2010-02-22-
                                      17:25*096*089*060*041*01726*12.20*+05*01**
                                             2010-02-08-
                                      14:40*096*088*063*045*01686*12.30*+05*01**
                                             2010-01-22-
                                      12:34*096*088*071*057*01580*12.40*+09*01**
Diagnosis                                                                       OK
                                                         2000-01-01-
                                                  00:00*0*000.0*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*0*000.0*000.0**
                                                         2000-01-01-
                                                    00:00*0*0*0*000.0**
                                                         2000-01-01-
                                                    00:00*0*0*0*000.0**
                                                         2000-01-01-
                                                    00:00*0*0*0*000.0**
                                                         2000-01-01-
                                                    00:00*0*0*0*000.0**
                                                         2000-01-01-
                                                    00:00*0*0*0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*000.0**
                                                         2000-01-01-
                                                  00:00*0*000.0*000.0**
Diagnosis                                                                       OK
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00*00000*00000*00000**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                2000-01-01-
      00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
Diagnosis                                                                       OK
Diagnosis                                                                       OK
                                                              2000-01-01-00:00*0-
                                                                           0-0-0-
                                                                   0*000.0*00000**
                                                              2000-01-01-00:00*0-
                                                                  0-0-0-0*000.0**
                                                              2000-01-01-00:00*0-
                                                                  0-0-0-0*000.0**
                                                              2000-01-01-00:00*0-
                                                                  0-0-0-0*000.0**
                                                              2000-01-01-00:00*0-
                                                                  0-0-0-0*000.0**
Diagnosis                                                   Instruction interrupted
Diagnosis                                                                       OK
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
                                                    2000-01-01-
                                           00:00*000*00*00*000*00*00*000*00*00**
Diagnosis                                                                       OK
                                                            016086**
                                                 00084*00930*01655*00009*00000**
```

02647*00026*00006*00001**
02252*06708*00022*00000**
00406*01281*00649*00242**
01932*00571*00075**
00000*00000*00000*00000**
02209*00066*00015*00003**
01307*00003*00001**
00000*00000*00000**
00002*00000*00000**

Diagnosis OK
0025

Signal str_mw_beginn
Signal **Please wait!**
...Data is being read

Test Step : Reading measuring values
Diagnosis OK
0
0
0
0

Test Step : Reading measuring values
Diagnosis OK
10.60
0.00
0.13
3.00
V
%
A
s

Test Step : Reading measuring values
Diagnosis OK
OK
n.OK
OK

Test Step : Reading measuring values
Diagnosis OK
OK
3
6
0

Test Step : Reading measuring values
Diagnosis OK
OK
0
8
NO

Test Step : Reading measuring values
Diagnosis OK
13.30
0.80
23
26
V
A
°C
°C

Test Step : Reading measuring values
Diagnosis OK
79.00
100.00
96.00
97.00
%
%
%
%

Test Step : Reading measuring values
Diagnosis OK
2.60
2.80
73
12.50
mOhm
mOhm
Ah
V

Test Step : Reading measuring values
Diagnosis OK
0.03
Check END

Test Step : Reading measuring values
Diagnosis OK
136
540
540
9

Test Step : Reading measuring values
Diagnosis OK
01110111 11111011
00000000 00000000
540
540

Test Step : Reading measuring values
Diagnosis OK
0.00
0.00
0.00
0.00
A
A
Nm

W
Test Step : Reading measuring values
Diagnosis OK
0
540
540
540
Test Step : Reading measuring values
Diagnosis OK
00000000 00000000
00000000 00000000
00000000 00000000
Test Step : Reading measuring values
Diagnosis OK
0
1
150.00
155.00
s
A
Diagnosis OK
Test Step : Conversion 490
Test Step : Conversion 491
Test Step : Conversion 492
Test Step : Conversion 493
Test Step : Conversion 494
Test Step : Conversion 495
Test Step : Conversion 496
Test Step : Conversion 498
Test Step : Conversion 499
Test Step : Conversion 49A
Test Step : Conversion 49B
Test Step : Adding protocol
End sub-function: j533_8k_90____2_0906_21_histdaten_auslesen X
Test Step : Reading history data
Function Test **OK**

Function Test13: IUMPR 2_1003_21_Datenlesen

Test Step / Action	Outputs	Result
Signal	Data is evaluated. Please wait ... B	
Test Step : VARIANT control module 1		
Diagnosis		OK
		OKAY
		MOT6000
Test Step : Determining start requirements		
Signal	Startbedingungen ermitteln	
Signal	Data is evaluated. Please wait ... B	
Diagnosis		OK
		OKAY
		16080
		70
		30
		236
Diagnosis		OK
Diagnosis		OK
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		0
		4984
		28
		5
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		1
		9580
		91
		30
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		2
		9581
		91
		30
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		3
		5551
		25
		4
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY

ECU_NichtInGE
4
8187
25
4
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
5
4484
48
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
6
9050
30
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
7
9952
3
2
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
8
9567
21
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
9
8194
236
2
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
10
9830
1
2
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
11
9951
2
2
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
12
5182
3
2
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
13
5183
155
2
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
14
8863

	236
	2
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	15
	8852
	2
	2
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	16
	11515
	236
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	17
	11516
	236
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	18
	4807
	48
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	19
	10624
	174
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	20
	12288
	236
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	21
	5120
	147
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	22
	5107
	41
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	23
	5117
	147
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	24
	5118
	62
	30
Diagnosis	OK

OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
25
5127
106
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
26
5114
196
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
27
5104
177
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
28
9690
103
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
29
9691
50
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
30
9880
236
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
31
9659
105
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
32
9879
236
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
33
9660
236
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
34
9661
12
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK

OKAY
ECU_InGE
35
4951
35
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
36
9949
31
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
37
9950
26
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
38
8675
35
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
39
4949
35
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
40
4950
35
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
41
9645
208
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
42
9658
200
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
43
9568
85
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
44
4817
186
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
45

4279
188
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
46
4794
100
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
47
4818
54
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
48
8675
35
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
49
13011
236
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
50
13012
236
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
51
5171
117
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
52
5172
192
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
53
5242
232
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
54
4914
235
30
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
55
5162
230
30

Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	56
	5403
	15
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	57
	4928
	14
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	58
	4927
	15
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	59
	5168
	236
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	60
	8784
	201
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	61
	9653
	31
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	62
	5415
	193
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	63
	4926
	14
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	64
	8854
	120
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	65
	5404
	14
	30
Diagnosis	OK
	OKAY
Test Step : Reading data	

Diagnosis		OK
		OKAY
		ECU_NichtInGE
		66
		4929
		14
		30
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		67
		9954
		7
		30
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		68
		9953
		5
		30
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		69
		8735
		180
		30
Diagnosis		OK
		OKAY
Test Step : Reading data		
Test Step : End of reading control module 1		
Diagnosis		OK
Signal	70 data records of 70 was read.	
Test Step : VARIANT control module 2		
Signal	Additional data is evaluated. Please wait ... B	
Diagnosis		Instruction interrupted
Signal	Communication with the Engine Control Module (ECM) 2 could not be established.	
Signal	END OF TEST	
Function Test		**X**

Function Test14: Diagnoseprotokoll_senden_21

Test Step / Action	Outputs	Result
Test Step : GFS Light?		
Beginning sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen_neu	
Test Step : Reading Vehicle Identification Number (VIN)		
Diagnosis		OK
		1
		OKAY
		MOT6000
Diagnosis		OK
		WA1AM74L49D[redacted]
		OKAY
End sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen_neu	OK
Test Step : Reading Transmission Data ?		
Beginning sub-function:	iumpr_____3_0106_21_Datenlesen_Getriebe	
Test Step : Variant		
Diagnosis		OK
		OKAY
		GET6000
Test Step : Reading data MVB (124)		
Signal	Data will be read out from the transmission control module and evaluated. *- Please wait the Vehicle Diagnostic Tester automatically continues ...* B	
Diagnosis		OK
		OKAY
Diagnosis		OK
		0
		OKAY
Diagnosis		OK
Test Step : Reading data MVB (123)		
Diagnosis		OK
		OKAY
Diagnosis		OK
		100.00
		OKAY
Diagnosis		OK
Test Step : Reading data MVB (122)		
Diagnosis		OK
		OKAY
Diagnosis		OK
		100.00
		OKAY
Diagnosis		OK
Test Step : Reading data MVB (121)		
Diagnosis		OK
		ERROR_NRC_RequestOutOfRange:ServiceID:ResponseCode

Diagnosis	OK
End sub-function: iumpr_____3_0106_21_Datenlesen_Getriebe	OK
Test Step : Additional data	
Test Step : Recording data	
Signal The diagnostic protocol was sent or stored on the tester.	
Function Test	**OK**

VAS 5052 **Diagnosis log** 22.07.201015:01

NOTE:
The stylesheet file version does not match this file version.:
XSL V.75 / XML V.78

Protocol display can be inconsistent

Workshop code:
06746444422107

Version:
Base V17.00.00 16/02/2010
Audi V17.19.00 05/04/2010

Dealership identifier:
ASC 52
#1

License plate:
-

Vehicle Identification Number (VIN):
WA1AM74L69D[redacted]

Vehicle:

Marque:	Audi
Type:	Audi Q7 USA/CDN 2007>
Model year:	2009 (9)
Body version:	SUV
Engine code:	CATA 3.0l TDI / 165 kW

Diagnostic time expenditure (TU): 64

Event memory 1:

01 - Engine Electronics
4L0910401Q
3.0TDI EDC17G004AG
Coding long
Dealer number 83456
4L0907401B
H01
0050

2Event(s) detected

08704 P2200 000
NOx Sensor Bank 1 Sensor 1 Circuit

Ambient requirements:

Standard values:	
Date	20.07.10
Time	14:46:17
Mileage	0012449
Priority	2
Malfunction occurrence counter	11
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	980 /min
Value 2	0 km/h
Value 3	8.0 mg/H
Value 4	
Value 5	200.6 °C
Value 6	22.5 °C
Value 7	989 mbar

08704 P2200 003
NOx Sensor Bank 1 Sensor 1 Circuit

Ambient requirements:

Standard values:	
Date	20.07.10
Time	12:21:00
Mileage	0012448
Priority	2
Malfunction occurrence counter	2
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	980 /min
Value 2	0 km/h
Value 3	9.0 mg/H
Value 4	
Value 5	194.7 °C
Value 6	22.5 °C
Value 7	989 mbar

6F - Central Comfort System II
4L0910290A
ILM HINTEN 2 H05
Coding 3595
Dealer number 31414
4L0907290A
H05
0060

4L0910591
J_245_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_394_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_392_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

0Event(s) detected

02 - Automatic Transmission 09D
09D927750FD
AL 750 6A
Coding 504
Dealer number 31414
09D927750FD
H78
1474

0Event(s) detected

03 - ABS/ESP Mark 25 E1
4L0910517B
ESP ALLRAD MK25E1
Coding 99473
Dealer number 31414
4L0614517D
H30
0010

0Event(s) detected

05 - Access/Start Authorization System w/Keyless Entry
4F0910852B
FBSAUDIC6 ELV H05
Coding 135
Dealer number 31414
4F0905852D
H05
0100

4F0910132L
FBSAUDIC6 EZS H03
Dealer number 00000
4F0909135L

0020

4F0910335B
FBSAUDIC6 KSG H03
Dealer number 00000
4L0907335B

0020

4F0910220G
FBSAUDIC6 IDG H01
Dealer number 00000
4F0837220AG

0040

0Event(s) detected

07 - Display/operating unit high
4L0910732R
Interfacebox H43
Coding 2003
Dealer number 31414
4E0035729A
000
4610

4L0910609
E0380 BedienteilH01
Dealer number 00000
4L0919610B
000
0060

0Event(s) detected

08 - Climate Control, Comfort
4L0910043B
KLIMABETAETIGUNGH07
Coding 131126
Dealer number 31414
4L0820043N

0040

0Event(s) detected

09 - Vehicle Electrical System
4F0910279N
ILM Fahrer H22
Coding 12123
Dealer number 31414
4F0907279
000
0320

4L1910113
Wischer AU716 H16
Coding 64792
Dealer number 31414
4L1955119A

0100

8K0910557
REGENLICHTSENSORH04
Coding 150059
Dealer number 31414
8K0955559B

0003

0Event(s) detected

0E - CD Changer (pos. 1)
4L0910110B
MP3-Changer H46
Dealer number 00000
4L0035110
046
0390

0Event(s) detected

0F - Radio Tuner Digital, SIRIUS
4E0910593M
SDAR SIRIUS H07
Coding 100
Dealer number 31414
4E0035593F
000
0160

0Event(s) detected

15 - Airbag 8R
4L0910655A
73 AIRBAG AUDI8RH43
Coding 14131
Dealer number 31414
4L0959655B
H43
0230

4L0910339A
BF-Gewichtsens. H03
Dealer number 00000
4L0959339A

0030

0Event(s) detected

16 - Steering Wheel Electronics
4F0910549A
J0527
Coding 2042
Dealer number 31414
4F0953549D
H05
0530

XXXXXXXXXXX
E0221 H02
Dealer number 00000

0030

0Event(s) detected

17 - Instrument Cluster expanded ESI
4L0920981Q
KOMBIINSTR.
Coding long
Dealer number 31414
4L0920981Q
H06
0135

0Event(s) detected

19 - Data Bus On Board Diagnostic Interface (Gateway)
4F0907468L
GW-BEM 5CAN-M
Coding long
Dealer number 31414
4F0907468G
H06
0025

8K0915181D

J367-BDM
Coding ---
Dealer number ---
8K0915181D
H07
0107

0Event(s) detected

1E - External Audio Source Connection (pos. 2)
4E0035785F
SG ext.Player
Coding long
Dealer number 00000
4E0035785C
H15
0850

0Event(s) detected

28 - Rear Climate Control Head
4L0910158
KLIMABETAETIGUNGH05
Coding 6
Dealer number 31414
4L0919158C

0060

0Event(s) detected

36 - Seat Adjustment, Driver's Side
4F0959760C
MEM-FS
Coding long
Dealer number 31414
4F0959760C
H08
0062

0Event(s) detected

37 - Navigation System High
4E0910888M
MNS US H52
Dealer number 22309
4E0919887M
000
1100

0Event(s) detected

3C - Lane Change Assistance
4L0910566C
J0769_SWA_MasterH01
Coding 10001
Dealer number 31414
4L0907566B
H01
0040

4L0910568C
J0770_SWA_Slave_H01
Dealer number 00000
4L0907568B
H01
0040

0Event(s) detected

42 - Door Electronics, Driver's Side
4F0959793R
TSG FA
Coding long
Dealer number 31414
8K0959793D
H11
0250

0Event(s) detected

46 - Comfort System Central Control Module w/anti-theft w.
4L0910289F
Komfortgeraet H08
Coding 3438621
Dealer number 31414
4L0907289C
60
0060

1K0951605C
LIN BACKUP HORN H03
Dealer number 00000

1301

0Event(s) detected

47 - Digital Sound Package (Bose)
4L0910223G
DSP-High AU716 H03
Coding 22
Dealer number 31414
4L0035223D
OD_
0150

0Event(s) detected

4F - Vehicle Electrical System 2
4F0910280
ILM Beifahrer H13
Coding 12001
Dealer number 31414
4F0907280D
0100

0Event(s) detected

52 - Door Electronics, Passenger's Side
4F0959792R
TSG BF
Coding long
Dealer number 31414
8K0959792D
H11
0250

0Event(s) detected

55 - Dynamic Headlight Range Control w/o AFS
8P0907357H
Dynamische LWR H02
Coding 7
Dealer number 31414

000
0010

0Event(s) detected

56 - Radio (included in -J523-)
4E0910541T
TUNER EU/US/RDW H42
Coding 2
Dealer number 31414
4E0035542
000
0630

0Event(s) detected

62 - Door Electronics, left rear
4F0959795M
TSG HL
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

65 - Tire Pressure Monitoring (TPM) Low-Line
4F0910273B
Reifendruck 3 H05
Coding 62424
Dealer number 31414
4F0907273A
050
0100

0Event(s) detected

67 - Voice Control
4E0910754Q
SDS 3501 US H46
Dealer number 12336
4E0035753A
000
0630

0Event(s) detected

69 - Trailer function mechanical connection
4E0907383H
Anhaenger
Coding long
Dealer number 31414
4E0907383G
H08
0080

0Event(s) detected

6C - Rear View Camera System
4L0910441B
J772__Rearview
Coding 1021201
Dealer number 31414
4L0907441B
H03
0030

0Event(s) detected

6D - Rear Lid Electronics
4L0910945
ValeoHeckdeckel H28
Dealer number 98765
4L0827851C
H28
0290

4L0910946
ValeoHeckdeckel H28
Dealer number 98765
4L0827852C

H28
0290

0Event(s) detected

72 - Door Electronics, right rear
4F0959795M
TSG HR
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

76 - Acoustic Parking Aid, 8 channel
4L0910283A
Parkhilfe 8-Kan H02
Coding 231346
Dealer number 31414
4L0919283A
H02
0400

0Event(s) detected

77 - Telephone (cellular phone base plate)
4F0910336H
Handyvorb2 H20
Coding 10900
Dealer number 31414
4E0862335
000
1130

0Event(s) detected

Steps completed:

No.	Mask / Test Name / Function / Test step	Result
1.	DiagnosisStart	22.07.201014:25
2.	Vehicle Identification	
3.	Vehicle System Test	
4.	Vehicle system test completed 1	
5.	Function Test	
6.	Function Test 1: Start_Protokoll_laufleistung_21	OK
7.	Function Test	
8.	Function Test 2: GWK_Start_Hinweis_21	OK
9.	Function Test	
10.	Function Test 3: SYS___4L_____1_0506_21_Hauptprogramm_Meldepflicht	OK
11.	Function Test	
12.	Function Test 4: Unberechtigte_FSP_4L_2_1007_21	OK
13.	Function Test	
14.	Function Test 5: J623____23_____1_1208_21_NMK	OK
15.	Function Test	
16.	Function Test 6: J285____90_____1_1008_21_historiendaten_lesen	OK
17.	Fault Memory Contents	
18.	Test Plan 1	
19.	Function Test 7: G295_4L_26_CCMA_1_0908_21 G295/J583 - NOx Sensor / Control Module	OK
20.	Test Plan 2	
21.	Function Test 8: G295_4L_26_CCMA_1_0908_21 G295/J583 - NOx Sensor / Control Module	OK
22.	Test Plan 3	

Test Plan1:

System Test Plan
Mot6000 - (P2200) NOx Sensor Bank 1 Sensor 1 Circuit
- G295/J583 - NOx Sensor / Control Module

Test Plan2:

System Test Plan
Mot6000 - (P2200) NOx Sensor Bank 1 Sensor 1 Circuit
OK G295/J583 - NOx Sensor / Control Module

Test Plan3:

System Test Plan
Mot6000 - (P2200) NOx Sensor Bank 1 Sensor 1 Circuit
OK G295/J583 - NOx Sensor / Control Module

Function Test1: Start_Protokoll_laufleistung_21

Test Step / Action	Outputs	Result
Test Step : Determine mileage from SGBD		
Diagnosis		OK
		OKAY
		SCH6000
Diagnosis		OK
		12500
		OKAY
Diagnosis		OK
		OKAY
Test Step : Supplement protocol distance		
Function Test		**OK**

Function Test2: GWK_Start_Hinweis_21

Test Step / Action	Outputs	Result
Test Step : Note for warranty claim		
Signal	YZ ***NOTE:*** *When ending Guided Fault Finding the diagnostic protocol is automatically transferred online.* *The diagnostic protocol must includ the correct work order number and Vehicle Identification Number (VIN). If no diagnostic protocol is available, warranty claims will be rejected.*	

```
                    The diagnostic connector may only be disconnected
                    prematurely when instructed to do so.
   Input            - Enter correct work order number:
Test Step : Note for test requirements
   Signal           General test requirements:
                    I Battery voltage OK.
                    I Fuses OK. A Wiring diagram
                    I Ground (GND) connections tight and without corrosion or
                    oxidation (loosen and clean GND connections). A Wiring
                    diagram
                    I Electrical wiring as well as test instrument leads should
                    only be connected or disconnected with the ignition
                    switched off.
Test Step : Notes on Start/Stop System
   Signal           Safety precautions for vehicles with
                    start/stop system.
                    ST WARNING!
                    Risk of personal injury due to automatic engine start on
                    vehicles with start/stop system.
                    J On vehicles with activated start/stop system
                    (recognizable by a message in the instrument cluster) the
                    engine may start automatically, as required.
                    J When working on the vehicle, make sure the start/stop
                    system is deactivated (switch ignition OFF, if required
                    switch ignition ON again).
   Beginning sub-    sys__________1_0607_21_fahrgestellnummer_lesen
function:
Test Step : Reading Vehicle Identification Number (VIN)
   Diagnosis                                                        OK
                                                                     1
                                                                  OKAY
                                                               MOT6000
   Diagnosis                                                        OK
                                              WA1AM74L69D[redacted]
                                                                  OKAY
   End sub-function: sys__________1_0607_21_fahrgestellnummer_lesen  OK
Function Test                                                       OK
```

Function Test3: SYS___4L_____1_0506_21_Hauptprogramm_Meldepflicht

```
Test Step / Action  Outputs                                      Result
   Beginning sub-    sys__________1_0506_21_MPF2006_1
function:
Test Step : Importer
   End sub-function: sys__________1_0506_21_MPF2006_1               OK
   Beginning sub-    sys__________1_1206_21_MPF2006_6
function:
Test Step : Importer
   End sub-function: sys__________1_1206_21_MPF2006_6               OK
   Beginning sub-    sys__________1_0407_21_MPF2007_4
function:
Test Step : Importer
   End sub-function: sys__________1_0407_21_MPF2007_4               OK
   Beginning sub-    sys__________1_0408_21_MPF2008_3
function:
Test Step : Importer
   End sub-function: sys__________1_0408_21_MPF2008_3               OK
   Beginning sub-    sys__________1_0309_21_MPF2009_1
function:
Test Step : Importer
Test Step : Dealer number
Test Step : Assigning DTC memory
   End sub-function: sys__________1_0309_21_MPF2009_1               OK
   Beginning sub-    sys__________1_1009_21_MPF2009_7
function:
Test Step : Importer
   End sub-function: sys__________1_1009_21_MPF2009_7               OK
Function Test                                                       OK
```

Function Test4: Unberechtigte_FSP_4L_2_1007_21

```
Test Step / Action  Outputs                                      Result
   Beginning sub-    unberechtigte_fsp_4l_1_0108_21
function:
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
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Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Output unauthorized malfunction
   End sub-function: unberechtigte_fsp_4l_1_0108_21                 OK
Function Test                                                       OK
```

Function Test5: J623_____23______1_1208_21_NMK

```
Test Step / Action  Outputs                                      Result
```

Test Step : Selection
Test Step : V6 TDI
Test Step : V6 TDI BIN5 KWP
Diagnosis OK
7
8
8
Diagnosis OK
Diagnosis OK
11110111
00111111
Diagnosis OK
Diagnosis OK
-14
-11
-20
Diagnosis OK
Diagnosis OK
-12
-9
-14
Diagnosis OK
Diagnosis OK
-10
-7
-17
Diagnosis OK
Diagnosis OK
-31
-4
-11
Diagnosis OK
Diagnosis OK
-18
-6
-15
Diagnosis OK
Diagnosis OK
-25
-9
-13
Diagnosis OK
Diagnosis OK
0
0
0
Diagnosis OK
Diagnosis OK
0
0
0
Diagnosis OK
Diagnosis OK
BPG-810 03.02.09
31H01-– 1479 0145
Diagnosis OK
Diagnosis OK
WA1AM74L69D[redacted]
<>
Diagnosis OK
Diagnosis OK
5372544422107
20.07.10 <> <> <> <>
Diagnosis OK
Diagnosis OK
0
0
0
Diagnosis OK
Diagnosis OK
0
0
0
Diagnosis OK
Diagnosis OK
0
53.10
-277.30
29.50
Diagnosis OK
Test Step : V6 TDI BIN5 KWP
Diagnosis OK
64.90
354.00
41.30
29.50
Diagnosis OK
Diagnosis OK
0
00000110
0
0
Diagnosis OK
Diagnosis OK
0
0
00000000
2.68
Diagnosis OK
Diagnosis OK
375
373

377
414
Diagnosis OK
Diagnosis OK
01010110
11101000
00010010
00000000
Diagnosis OK
Diagnosis OK
1.03
1.02
1.01
1.01
Diagnosis OK
Diagnosis OK
1.01
1.00
0
0
Diagnosis OK
Diagnosis OK
0
0
0
0
Diagnosis OK
Diagnosis OK
32.40
Diagnosis OK

Function Test **OK**

Function Test6: J285 90 1 1008 21 historiendaten lesen

Test Step / Action | Outputs | Result

Test Step : Extended Service Interval - reading history data
Diagnosis OK
4FF000000FF000214FF0015C0FF01D27FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Diagnosis OK
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Function Test **OK**

Function Test7: G295_4L_26_CCMA_1_0908_21

Test Step / Action | Outputs | Result

Test Step : .
Signal
ST ***WARNING!***
There is risk of personal injury because components of the engine and exhaust system may be hot.
If necessary, put on suitable working gloves or wait until components are cooled off.

Test Step : Safety precautions
Signal
- Observe the following when working on the reduction agent system:
ST***WARNING!***
I *The pressure lines of the reduction agent system may be under pressure.*
In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.
I *Skin irritation caused by reducing agent.*
Use hand and eye protection!

Signal
- When working with reducing agent, observe the following:
ST***WARNING!***
I *Avoid direct skin and eye contact!*
Use hand and eye protection!
I *If reducing agent came in contact with skin, wash skin with soap and water.*
I *If reducing agent gets in the eye, flush eye several minutes with water.*
I *Do not inhale or swallow reducing agent !*
I *In the event that reducing agent was swallowed, drink a lot of water and locate immediately a clinic for accidents or inform a Doctor.*

Test Step : Test sequence
Signal
I Check whether for this components all necessary fuses are correctly inserted and OK, see wiring diagram.
I If a measuring value channel for this component is present, check whether the displayed measuring values are plausible, see Guided Function <Read Measuring Values>.
I If available, perform the output Diagnostic Test Mode (DTM)/basic setting, see Vehicle Self-Diagnosis.
I Check the harness connectors on the component for bent, pushed-in pins or contact corrosion for water incursion or loose contacts.
I Check the voltage supply
(e.g. 5, 12 volts of terminal 15, 30, 78, from main engine relay, etc.) on connector of component, see wiring diagram.
I Check the Ground (GND) connection, if present, see wiring diagram.
I Check all signal wires on component for open circuit, short circuit to Ground (GND)/B+ or to each other.

Function Test **OK**

Function Test8: G295_4L_26_CCMA_1_0908_21

Test Step / Action | Outputs | Result

Test Step : .
Signal
ST ***WARNING!***
There is risk of personal injury because components of the engine and exhaust system may be hot.
If necessary, put on suitable working gloves or wait until components are cooled off.

Test Step : Safety precautions

Signal	**- Observe the following when working on the reduction agent system:** ***STWARNING!*** *I The pressure lines of the reduction agent system may be under pressure:* *In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.* *I Skin irritation caused by reducing agent:* *Use hand and eye protection!*
Signal	**- When working with reducing agent, observe the following:** ***STWARNING!*** *I Avoid direct skin and eye contact!* *Use hand and eye protection!* *I If reducing agent came in contact with skin, wash skin with soap and water.* *I If reducing agent gets in the eye, flush eye several minutes with water.* *I Do not inhale or swallow reducing agent !* *I In the event that reducing agent was swallowed, drink a lot of water and locate immediately a clinic for accidents or inform a Doctor.*

Test Step : Test sequence

Signal	I Check whether for this components all necessary fuses are correctly inserted and OK, see wiring diagram. I If a measuring value channel for this component is present, check whether the displayed measuring values are plausible, see Guided Function <Read Measuring Values>. I If available, perform the output Diagnostic Test Mode (DTM)/basic setting, see Vehicle Self-Diagnosis. I Check the harness connectors on the component for bent, pushed-in pins or contact corrosion for water incursion or loose contacts. I Check the voltage supply (e.g. 5, 12 volts of terminal 15, 30, 78, from main engine relay, etc.) on connector of component, see wiring diagram. I Check the Ground (GND) connection, if present, see wiring diagram. I Check all signal wires on component for open circuit, short circuit to Ground (GND)/B+ or to each other.
Function Test	**OK**

VAS 5051B **Diagnosis log** 28.06.201013:53

NOTE:
The stylesheet file version does not match this file version.:
XSL V.75 / XML V.78

Protocol display can be inconsistent

Workshop code:
09244244408185

Version:
Base V17.00.00 16/02/2010
Audi V17.19.00 05/04/2010

Dealership identifier:
Audi Manhattan

License plate:
[redacted]

Vehicle Identification Number (VIN):
WA1AM74L99D[redacted]

Vehicle:

Marque:	Audi
Type:	Audi Q7 USA/CDN 2007>
Model year:	2009 (9)
Body version:	SUV
Engine code:	CATA 3.0l TDI / 165 kW

Diagnostic time expenditure (TU): 41

Event memory 1:

01 - Engine Electronics
4L0910401Q
3.0TDI EDC17G000AG
Coding long
Dealer number 08185
4L0907401B
H01
0050

1Event(s) detected

08251 P203B 000
Reductant Level Sensor Circuit Range/Performance
Sporadic

Ambient requirements:

Standard values:	
Date	24.06.10
Time	21:23:34
Mileage	0028906
Priority	2
Malfunction occurrence counter	1
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	1090 /min
Value 2	14.0 V
Value 3	49.0 %
Value 4	18.9 °C
Value 5	4.9 bar
Value 6	27.0 °C
Value 7	0.360 V

76 - Acoustic Parking Aid, 8 channel
4L0910283A
Parkhilfe 8-Kan H02
Coding 221346
Dealer number 31414
4L0919283A
H02
0400

1Event(s) detected

01544 006
Warning light for parking -K136-
Short circuit to B+
Sporadic

Ambient requirements:

Standard values:	
Date	00.00.00
Time	00:00:00
Mileage	0000000
Priority	3
Malfunction occurrence	

counter 2
Unlearning counter / Driving cycle 144

6F - Central Comfort System II
4L0910290A
ILM HINTEN 2 H05
Coding 3595
Dealer number 31414
4L0907290A
H05
0060

4L0910591
J_245_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_394_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_392_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

0Event(s) detected

02 - Automatic Transmission 09D
09D927750FD
AL 750 6A
Coding 504
Dealer number 31414
09D927750FD
H78
1474

0Event(s) detected

03 - ABS/ESP Mark 25 E1
4L0910517B
ESP ALLRAD MK25E1
Coding 99473
Dealer number 31414
4L0614517D
H30
0010

0Event(s) detected

05 - Access/Start Authorization System
4F0910852B
FBSAUDIC6 ELV H05
Coding 131
Dealer number 31414
4F0905852D
H05
0100

4F0910132J
FBSAUDIC6 EZS H03
Dealer number 00000
4F0909135J

0020

4F0910220A
FBSAUDIC6 IDG H01
Dealer number 00000
4F0837220N

0040

0Event(s) detected

07 - Display/operating unit high
4L0910732R
Interfacebox H43
Coding 2003
Dealer number 31414
4E0035729A
000
4610

4L0910609
E0380 BedienteilH01
Dealer number 00000
4L0919610B
000
0060

0Event(s) detected

08 - Climate Control, Comfort
4L0910043B
KLIMABETAETIGUNGH07
Coding 54
Dealer number 31414
4L0820043N

0040

0Event(s) detected

09 - Vehicle Electrical System
4F0910279N
ILM Fahrer H22
Coding 11103
Dealer number 31414
4F0907279
000
0320

4L1910113
Wischer AU716 H16
Coding 64792
Dealer number 31414
4L1955119A

0100

8K0910557
REGENLICHTSENSORH04
Coding 150059
Dealer number 31414
8K0955559B

0003

0Event(s) detected

0E - CD Changer (pos. 1)
4L0910110B
MP3-Changer H46
Dealer number 00000
4L0035110
046
0390

0Event(s) detected

0F - Radio Tuner Digital, SIRIUS
4E0910593M
SDAR SIRIUS H07
Coding 100
Dealer number 31414
4E0035593F
000
0160

0Event(s) detected

15 - Airbag 8R
4L0910655A
73 AIRBAG AUDI8RH43
Coding 14131
Dealer number 31414
4L0959655B
H43
0230

4L0910339A
BF-Gewichtsens. H03
Dealer number 00000
4L0959339A

0030

0Event(s) detected

16 - Steering Wheel Electronics
4F0910549A
J0527
Coding 2242
Dealer number 31414
4F0953549C
H06
0530

XXXXXXXXXXX
E0221 H02
Dealer number 00000

0030

0Event(s) detected

17 - Instrument Cluster expanded ESI
4L0920981Q
KOMBIINSTR.
Coding long
Dealer number 31414
4L0920981Q
H06
0135

0Event(s) detected

19 - Data Bus On Board Diagnostic Interface (Gateway)
4F0907468K
GW-BEM 4CAN-M
Coding long
Dealer number 31414
4F0907468F
H06
0025

8K0915181D
J367-BDM
Coding ----

Dealer number ----
8K0915181D
H07
0107

0Event(s) detected

1E - External Audio Source Connection (pos. 2)
4E0035785F
SG ext.Player
Coding long
Dealer number 00000
4E0035785C
H20
0850

0Event(s) detected

36 - Seat Adjustment, Driver's Side
4F0959760C
MEM-FS
Coding long
Dealer number 31414
4F0959760C
H08
0062

0Event(s) detected

37 - Navigation System High
4E0910888M
MNS US H52
Dealer number 31414
4E0919887M
000
1100

0Event(s) detected

42 - Door Electronics, Driver's Side
4F0959793R
TSG FA
Coding long
Dealer number 31414
8K0959793D
H11
0250

0Event(s) detected

46 - Comfort System Central Control Module w/anti-theft w.
4L0910289F
Komfortgeraet H08
Coding 3438621
Dealer number 31414
4L0907289C
60
0060

1K0951605C
LIN BACKUP HORN H03
Dealer number 00000

1301

0Event(s) detected

47 - Digital Sound Package (Bose)
4L0910223G
DSP-High AU716 H03
Coding 12
Dealer number 31414
4L0035223D
OD_
0150

0Event(s) detected

4F - Vehicle Electrical System 2
4F0910280
ILM Beifahrer H13
Coding 12001
Dealer number 31414
4F0907280D
0100

0Event(s) detected

52 - Door Electronics, Passenger's Side
4F0959792R
TSG BF
Coding long
Dealer number 31414
8K0959792D
H11
0250

0Event(s) detected

56 - Radio (included in -J523-)
4E0910541T
TUNER EU/US/RDW H42
Coding 2
Dealer number 31414
4E0035542
000
0630

0Event(s) detected

62 - Door Electronics, left rear
4F0959795M
TSG HL
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

65 - Tire Pressure Monitoring (TPM) Low-Line
4F0910273B
Reifendruck 3 H05
Coding 62424
Dealer number 31414
4F0907273A
050
0100

0Event(s) detected

6C - Rear View Camera System
4L0910441B
J772__Rearview
Coding 1021201
Dealer number 31414
4L0907441B
H03
0030

0Event(s) detected

6D - Rear Lid Electronics
4L0910945
ValeoHeckdeckel H28
Dealer number 98765
4L0827851C
H28
0290

4L0910946
ValeoHeckdeckel H28
Dealer number 98765
4L0827852C
H28
0290

0Event(s) detected

72 - Door Electronics, right rear
4F0959795M
TSG HR
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

77 - Telephone (cellular phone base plate)
4F0910336H
Handyworb2 H20
Coding 10900
Dealer number 31414
4E0862335
000
1130

0Event(s) detected

Steps completed:

No.	Mask / Test Name / Function / Test step	Result
1.	DiagnosisStart	28.06.201013:01
2.	Vehicle Identification	
3.	Vehicle System Test	
4.	Vehicle system test completed 1	
5.	Function Test	
6.	Function Test 1: Start_Protokoll_laufleistung_21	OK
7.	Function Test	
8.	Function Test 2: GWK_Start_Hinweis_21	OK
9.	Function Test	
10.	Function Test 3: SYS___4L_____1_0506_21_Hauptprogramm_Meldepflicht	OK
11.	Function Test	
12.	Function Test 4: Unberechtigte_FSP_4L_2_1007_21	X
13.	Function Test	
14.	Function Test 5: J623____23_____1_1208_21_NMK	OK
15.	Function Test	
16.	Function Test 6: J285____90_____1_1008_21_historiendaten_lesen	OK
17.	Fault Memory Contents	
18.	Test Plan 1	
19.	DiagnosisInterrupt	28.06.201013:15
20.	Diagnosis jobLoad	28.06.201013:46
21.	Test Plan 2	
22.	Test Plan 3	
23.	Test Plan 4	
24.	Test Plan 5	
25.	Function Test 7: G684_4L_26_CCMA_1_0908_21 G684-Reducing Agent Tank Sensor	OK
26.	Test Plan 6	
27.	Function Test 8: J623_4L_23_CCMA_1_0209_21_SCRTank_Anpassen J623 - Adapting reducing agent tank adaptation values	OK
28.	Test Plan 7	

Test Plan1:

System Test Plan
Eph6000 - (01544) Warning light for parking -K136- - Short circuit to B+
- E266 - Parking Aid Button
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
- G684-Reducing Agent Tank Sensor

Test Plan2:

Test Plan3:

System Test Plan
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
? G684-Reducing Agent Tank Sensor

Test Plan4:

Test Plan5:

Test Plan6:

System Test Plan
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
OK G684-Reducing Agent Tank Sensor
- J623 - Adapting reducing agent tank adaptation values

Test Plan7:

System Test Plan
Eph6000 - (01544) Warning light for parking -K136- - Short circuit to B+
- E266 - Parking Aid Button
Mot6000 - (P203B) Reductant Level Sensor Circuit Range/Performance
OK G684-Reducing Agent Tank Sensor
OK J623 - Adapting reducing agent tank adaptation values

Function Test1: Start_Protokoll_laufleistung_21

Test Step / Action	Outputs	Result
Test Step : Determine mileage from SGBD		
Diagnosis		OK
		OKAY
		SCH6000
Diagnosis		OK
		29360
		OKAY
Diagnosis		OK
		OKAY
Test Step : Supplement protocol distance		
Function Test		**OK**

Function Test2: GWK_Start_Hinweis_21

Test Step / Action	Outputs	Result
Test Step : Note for warranty claim		
Signal	YZ ***NOTE:*** *When ending Guided Fault Finding the diagnostic protocol is automatically transferred online. The diagnostic protocol must includ the correct work order number and Vehicle Identification Number (VIN). If no diagnostic protocol is available, warranty claims will be rejected.* ***The diagnostic connector may only be disconnected prematurely when instructed to do so.***	
Input	- Enter correct work order number:	
Test Step : Note for test requirements		
Signal	**General test requirements:** I Battery voltage OK. I Fuses OK. A *Wiring diagram* I Ground (GND) connections tight and without corrosion or oxidation *(loosen and clean GND connections)*. A *Wiring diagram* I Electrical wiring as well as test instrument leads should only be connected or disconnected with the ignition switched off.	
Test Step : Notes on Start/Stop System		
Signal	**Safety precautions for vehicles with start/stop system.** ST ***WARNING!*** *Risk of personal injury due to automatic engine start on vehicles with start/stop system.* J *On vehicles with activated start/stop system (recognizable by a message in the instrument cluster) the engine may start automatically, as required.* J *When working on the vehicle, make sure the start/stop system is deactivated (switch ignition OFF, if required switch ignition ON again).*	
Beginning sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	
Test Step : Reading Vehicle Identification Number (VIN)		
Diagnosis		OK
		1
		OKAY
		MOT6000
Diagnosis		OK
		WA1AM74L99D[redacted]
		OKAY
End sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	OK
Function Test		**OK**

Function Test3: SYS_4L_1_0506_21_Hauptprogramm_Meldepflicht

Test Step / Action	Outputs	Result
Beginning sub-function:	sys_____1_0506_21_MPF2006_1	
Test Step : Importer		
End sub-function:	sys_____1_0506_21_MPF2006_1	OK
Beginning sub-function:	sys_____1_1206_21_MPF2006_6	
Test Step : Importer		

End sub-function:	sys_____1_1206_21_MPF2006_6	OK
Beginning sub-function:	sys_____1_0407_21_MPF2007_4	
Test Step : Importer		
End sub-function:	sys_____1_0407_21_MPF2007_4	OK
Beginning sub-function:	sys_____1_0408_21_MPF2008_3	
Test Step : Importer		
End sub-function:	sys_____1_0408_21_MPF2008_3	OK
Beginning sub-function:	sys_____1_0309_21_MPF2009_1	
Test Step : Importer		
Test Step : Dealer number		
Test Step : Assigning DTC memory		
End sub-function:	sys_____1_0309_21_MPF2009_1	OK
Beginning sub-function:	sys_____1_1009_21_MPF2009_7	
Test Step : Importer		
End sub-function:	sys_____1_1009_21_MPF2009_7	OK
Function Test		**OK**

Function Test4: Unberechtigte_FSP_4L_2_1007_21

Test Step / Action	Outputs	Result
Beginning sub-function:	unberechtigte_fsp_4l_1_0108_21	
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Malfunction 1544/6/1		
Diagnosis		OK
		0400
		4L0910283A
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
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Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Output unauthorized malfunction		
Signal	There are (1) unjustified malfunctions stored.- Press **-Done-** or D to continue in test program. YZ***NOTES:*** *J An unjustified malfunction is a malfunction that is not relevant or there is no customer report for it, this means the malfunction entry can be ignored.* *J At the entry of Guided Fault Finding it will be checked whether unjustified malfunctions are stored, that may result in a false diagnosis.*	
Signal	Display of the 1 . unjustified malfunction of 1 unjustified malfunctions. 76 - Parking aidmalfunction location: 1544 - Parking Aid Indicator Lamp -K136-malfunction type 1: 6 - Short to B+malfunction type 2: 1 - sporadic - Press **-Done-** or D to continue in test program.	
End sub-function:	unberechtigte_fsp_4l_1_0108_21	X
Function Test		**X**

Function Test5: J623___23____1_1208_21_NMK

Test Step / Action	Outputs	Result
Test Step : Selection		
Test Step : V6 TDI		
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		80
		80
		81
Diagnosis		OK
Diagnosis		OK
		11110111
		00111111
Diagnosis		OK
Diagnosis		OK
		-15
		-6
		-17
Diagnosis		OK
Diagnosis		OK
		-8
		-3
		-15
Diagnosis		OK
Diagnosis		OK
		-9
		-2
		-17
Diagnosis		OK
Diagnosis		OK

	-20
	-9
	-17
Diagnosis	OK
Diagnosis	OK
	-20
	-5
	-11
Diagnosis	OK
Diagnosis	OK
	-9
	-9
	-20
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	BPG-810 21.02.09
	31H01--- 1479 0155
Diagnosis	OK
Diagnosis	OK
	WA1AM74L99D[redacted]
	<>
Diagnosis	OK
Diagnosis	OK
	5425744401405
	23.04.10 <> <> <> <>
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	76.70
	-277.30
	41.30
Diagnosis	OK
Test Step : V6 TDI BIN5 KWP	
Diagnosis	OK
	76.70
	354.00
	59.00
	41.30
Diagnosis	OK
Diagnosis	OK
	0
	00000110
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	00000000
	2.68
Diagnosis	OK
Diagnosis	OK
	375
	373
	377
	414
Diagnosis	OK
Diagnosis	OK
	10010110
	10110101
	00011011
	00000000
Diagnosis	OK
Diagnosis	OK
	1.01
	1.01
	1.02
	1.00
Diagnosis	OK
Diagnosis	OK
	1.00
	1.01
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
	0
Diagnosis	OK
Diagnosis	OK

		61.20
Diagnosis		OK
Function Test		**OK**

Function Test6: J285 90 1_1008_21_historiendaten_lesen

Test Step / Action	Outputs	Result
Test Step : Extended Service Interval - reading history data		
Diagnosis		OK

0FF0206C4FF000E40FF05F508FF05F504FF0018FCFF0018FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Diagnosis		OK

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Function Test		**OK**

Function Test7: G684_4L_26_CCMA_1_0908_21

Test Step / Action	Outputs	Result
Test Step : Safety precautions		
Signal	**- Observe the following when working on the reduction agent system:** ST***WARNING!*** l *The pressure lines of the reduction agent system may be under pressure:* *In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.* l *Skin irritation caused by reducing agent:* *Use hand and eye protection!*	Instruction interrupted
Signal	**- Observe the following when working on the reduction agent system:** ST***WARNING!*** l *The pressure lines of the reduction agent system may be under pressure:* *In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.* l *Skin irritation caused by reducing agent:* *Use hand and eye protection!*	
Signal	**- When working with reducing agent, observe the following:** ST***WARNING!*** l *Avoid direct skin and eye contact!* *Use hand and eye protection!* l *If reducing agent came in contact with skin, wash skin with soap and water.* l *If reducing agent gets in the eye, flush eye several minutes with water.* l *Do not inhale or swallow reducing agent !* l *In the event that reducing agent was swallowed, drink a lot of water and locate immediately a clinic for accidents or inform a Doctor.*	
Test Step : .		
Test Step : P203B		
Test Step : Reducing Agent Temperature Sensor, value		
Signal	- Make sure the vehicle is standing on a level surface for further testing. - Now reconnect all harness connectors that were disconnected in the previous test steps. - Switch ignition on.	Instruction interrupted
Signal	- Make sure the vehicle is standing on a level surface for further testing. - Now reconnect all harness connectors that were disconnected in the previous test steps. - Switch ignition on.	
Diagnosis		OK OKAY 31.50
Diagnosis		OK
Signal	Measuring value on temperature sensor: 31.5 V Specified value: larger than 0 °C The temperature is OK.	
Test Step : 1 Measuring value Tank sensor		
Diagnosis		OK OKAY 1.88
Diagnosis		OK
Test Step : Checking harness connnectors		
Question	- Switch ignition off. - Check whether the electrical harness connector on the Tank sensor is connected and properly engaged. - Check also all other electrical connectors in the relevant wire path. **Were all harness connectors attached and properly engaged?**	Yes
Question	- Check harness connector on Tank sensor for:l Bent, pushed-in pins l Loose contact l Contact corrosion, water incursion. - Check also all other electrical connectors in the relevant wire path. **Are the connectors OK?**	Yes
Signal	An exact malfunction localization is not possible! Possible malfunction causes: - One or several wire connections damaged - Reducing agent tank sensor - Reducing agent metering system control module faulty - Engine control module faulty	
Signal	YZ ***NOTE:*** *After the function test has been completed, do not forget to reverse all steps that were necessary for the function test (for example: disconnected harness connectors, pulled out fuses etc.) and therefore re-establishing the vehicles original condition.*	
Question	K ***NOTE:*** *If reducing agent was drained, or the Active tank (not Passive tank) or the Reducing agent pump or the Reducing agent injector or a line for reducing agent or the ECM was replaced, then the* ***<Adapt Reducing Agent***	Yes

```
                       Tank adapt. values> function must be performed.
                       Is/was one of the listed works performed or is/was a
                       component replaced?
   Signal              - After replacing the listed components, perform the
                       <Adapting reducing agent tank adaptation values>
                       function.
                       A See test plan!
Function Test                                                          OK
```

Function Test8: J623_4L_23_CCMA_1_0209_21_SCRTank_Anpassen

```
Test Step / Action     Outputs                                     Result
Test Step : .
   Signal              K NOTE:
                       If reducing agent was drained, or the Active tank (not
                       Passive tank) or the Reducing agent pump or the
                       Reducing agent injector or a line for reducing agent or the
                       ECM was replaced, the reducing agent tank must be filled
                       and the relevant adaptation value must be adapted in the
                       ECM.
   Question            - If the active reducing agent tank is not full, add at least 1    Yes
                       1/2 gallons (6 liters) of reducing agent.
                       This minimum quantity is required to avoid technical
                       problems.
                       In ElsaWeb, Maintenance etc. are country specific values
                       issued, these values should be maintained.
                       Does the active reducing agent tank contain
                       the minimum quantity now?
                       Yes --> Adaptation will be started
                       No --> Function will be cancelled
   Beginning sub-       SYS___23____1_1006_21_SG_Module
function:
   Signal              Please wait ...
                       Data is being transmitted
Test Step : .
   Diagnosis                                        Instruction interrupted
   Diagnosis                                                           OK
                                                                     OKAY
   Diagnosis                                                           OK
Test Step : .
Test Step : .
   Signal              YZNOTE:
                       In the following test step the adaptation value for the
                       reducing agent tank is adapted.
Test Step : .
   Signal              Value = 0001
   Signal              Please wait ...
                       The adaptation value will be stored.
   Diagnosis                                                           OK
                                                                     OKAY
   Diagnosis                                                           OK
Test Step : Adaptation
   Diagnosis                                                           OK
                                                                     OKAY
                                                                     0003
                                                                        2
   Diagnosis                                                           OK
                                                                     OKAY
                                                     ANP_WERT_BESTAETIGEN
                                                                     0003
   Diagnosis                                                           OK
                       ERROR_NRC_ServiceNotSupported:ServiceID:ResponseCode
   Diagnosis                                                           OK
Test Step : Adaptation
   Diagnosis                                                           OK
                                                                     OKAY
                                                                     0004
                                                                        2
   Diagnosis                                                           OK
                                                                     OKAY
                                                     ANP_WERT_BESTAETIGEN
                                                                     0004
   Diagnosis                                                           OK
                       ERROR_NRC_ServiceNotSupported:ServiceID:ResponseCode
   Diagnosis                                                           OK
Test Step : Adaptation
   Diagnosis                                                           OK
                                                                     OKAY
                                                                     0004
                                                                        2
   Diagnosis                                                           OK
                                                                     OKAY
                                                     ANP_WERT_BESTAETIGEN
                                                                     0004
   Diagnosis                                                           OK
                       ERROR_NRC_ServiceNotSupported:ServiceID:ResponseCode
   Diagnosis                                                           OK
Test Step : Adaptation
   Diagnosis                                                           OK
                                                                     OKAY
                                                                     0004
                                                                        2
   Diagnosis                                                           OK
                                                                     OKAY
                                                     ANP_WERT_BESTAETIGEN
                                                                     0004
   Diagnosis                                                           OK
                       ERROR_NRC_ServiceNotSupported:ServiceID:ResponseCode
   Diagnosis                                                           OK
Test Step : Adaptation
   Diagnosis                                                           OK
                                                                     OKAY
                                                                     0004
```

		2
Diagnosis		OK
		OKAY
		ANP_WERT_BESTAETIGEN
		0004
Diagnosis		OK
		ERROR_NRC_ServiceNotSupported:ServiceID:ResponseCode
Diagnosis		OK
Signal	**- Switch ignition off.**	
Signal	**Please wait ...**	
Signal	**The adaptation value was successfully stored.**	
	- You can switch the ignition on again.	
End sub-function:	SYS___23____1_1006_21_SG_Module	OK
Function Test		**OK**

VAS PC **Diagnosis log** 21.07.201014:44

NOTE:
The stylesheet file version does not match this file version.:
XSL V.75 / XML V.78

Protocol display can be inconsistent

Workshop code:
00497699993204

Version:
Base V18.00.00 29/04/2010
Audi V18.20.00 19/05/2010

Dealership identifier:
Queensway Audi

License plate:
-

Vehicle Identification Number (VIN):
WA1JMCFEXAD[redacted]

Vehicle:

Marque:	Audi
Type:	Audi Q7 USA/CDN 2007>
Model year:	2010 (A)
Body version:	SUV
Engine code:	CATA 3.0l TDI / 165 kW

Diagnostic time expenditure (TU): 36

Event memory 1:

01 - Engine Electronics
4L1910401G
3.0TDI EDC17G000AG
Coding long
Dealer number 93204
4L0907401B
H02
0060

1Event(s) detected

08282 P205A 000
Reductant Tank Temperature Sensor Circuit

Ambient requirements:

Standard values:	
Date	04.06.10
Time	15:30:47
Mileage	0003607
Priority	2
Malfunction occurrence counter	33
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	920 /min
Value 2	12.0 V
Value 3	88.2 %
Value 4	23.4 °C
Value 5	0.0 bar
Value 6	-40.5 °C
Value 7	1.880 V

09 - Vehicle Electrical System
4F0910279R
ILM Fahrer H26
Coding 33114
Dealer number 31414
4F0907279
000
0340

4L1910113
Wischer AU716 H17
Coding 64792
Dealer number 31414
4L1955119A

0100

8K0910557
REGENLICHTSENSORH04
Coding 150059
Dealer number 31414
8K0955559B

0003

1Event(s) detected

02746 007
Right daytime running light lamp
Short circuit to Ground
Sporadic

Ambient requirements:

Standard values:	
Date	11.07.10
Time	16:16:00
Mileage	0007732
Priority	2
Malfunction occurrence counter	1
Unlearning counter / Driving cycle	198

6F - Central Comfort System II
4L0910290A
ILM HINTEN 2 H05
Coding 3595
Dealer number 31414
4L0907290A
H05
0060

4L0910591
J_245_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_394_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_392_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

0Event(s) detected

02 - Automatic Transmission 09D
09D927750LL
AL 750 6A
Coding 1016
Dealer number 31414
09D927750LL
H92
1579

0Event(s) detected

03 - ABS/ESP Mark 25 E1
4L0910517K
ESP ALLRAD MK25E1
Coding 99473
Dealer number 31414
4L0614517K
H30
0020

0Event(s) detected

05 - Access/Start Authorization System w/Keyless Entry
4F0910852B
FBSAUDIC6 ELV H05
Coding 135
Dealer number 31414
4F0905852D
H05
0100

4F0910132L
FBSAUDIC6 EZS H03
Dealer number 00000
4F0909135L

0020

4F0910335B
FBSAUDIC6 KSG H03
Dealer number 00000
4L0907335B

0020

4F0910220G
FBSAUDIC6 IDG H01
Dealer number 00000
4F0837220AG

0053

0Event(s) detected

08 - Climate Control, Comfort
4L0910043C
KLIMA 4 ZONEN
Coding long

Dealer number 31414
4L0820043AB
H12
0030

0Event(s) detected

15 - Airbag 8R
4L0910655A
75 AIRBAG AUDI8RH43
Coding 14133
Dealer number 31414
4L0959655B
H43
0230

0Event(s) detected

16 - Steering Wheel Electronics
4F0910549A
J0527
Coding 2242
Dealer number 31414
4F0953549C
H06
0530

XXXXXXXXXXX
E0221 H02
Dealer number 00000

--
0100

0Event(s) detected

17 - Instrument Cluster expanded ESI
4L0920931N
KOMBIINSTR.
Coding long
Dealer number 31414
4L0920931N
H08
0147

0Event(s) detected

19 - Data Bus On Board Diagnostic Interface (Gateway)
4F0907468N
GW-BEM 5CAN-M
Coding long
Dealer number 31414
4F0907468G
H06
0035

8K0915181D
J367-BDM
Coding ----
Dealer number ----
8K0915181D
H07
0125

0Event(s) detected

36 - Seat Adjustment, Driver's Side
4F0959760C
MEM-FS
Coding long
Dealer number 31414
4F0959760C
H08
0062

0Event(s) detected

3C - Lane Change Assistance
4L0910566C
J0769_SWA_MasterH01
Coding 1
Dealer number 31414
4L0907566B
H01
0050

4L0910568C
J0770_SWA_Slave_H01
Dealer number 00000
4L0907568B
H01
0050

0Event(s) detected

42 - Door Electronics, Driver's Side
4F0959793R
TSG FA
Coding long
Dealer number 31414
8K0959793D
H11
0250

0Event(s) detected

46 - Comfort System Central Control Module w/anti-theft w.
4L0910289H
Komfortgeraet H10
Coding 3569693

Dealer number 31414
4L0907289H
10
0110

1K0951605C
LIN BACKUP HORN H05
Dealer number 00000

1501

0Event(s) detected

47 - Digital Sound Package (Bose)
4L0035223E
BOSE G3 AU716
Coding long
Dealer number 31414
4L0035223E
H01
0100

0Event(s) detected

4C - Tire Pressure Monitoring (TPM) II
4F0910274A
J793 RKA+ H02
Coding 696009
Dealer number 31414
4F0907274
000
0100

0Event(s) detected

4F - Vehicle Electrical System 2
4F0910280
ILM Beifahrer H13
Coding 12001
Dealer number 31414
4F0907280D
0100

0Event(s) detected

52 - Door Electronics, Passenger's Side
4F0959792R
TSG BF
Coding long
Dealer number 31414
8K0959792D
H11
0250

0Event(s) detected

55 - Dynamic Headlight Range Control w/AFS
4L0910357A
AFS 1 H01
Coding 31
Dealer number 31414
4L0907357A
000
0030

7L6941329A
AFS-Modul links H07
Dealer number 00000
7L6941329A

0004

7L6941329A
AFS-Modul rechtsH07
Dealer number 00000
7L6941329A

0004

0Event(s) detected

56 - Radio (MMI 3G)
4F0035082A
Radio U SIRIU
Coding long
Dealer number 31414
4F0035082
H45
0021

0Event(s) detected

5F - Information Electronics 1
4L0035664A
H-BN-NA
Coding long
Dealer number 31414
4L0035664A
H47
0042

8R0060884F
NAR 2009/2010
Coding ----
Dealer number ----

5304

4F0919604
DU7 High
Coding ----
Dealer number ----
4F0919604
H43
0306

4L0910609
E0380 Bedient
Coding ----
Dealer number ----
4L0919611C
H05
0060

8R0906961A
CD-Database
Coding ----
Dealer number ----

--
1293

0Event(s) detected

62 - Door Electronics, left rear
4F0959795M
TSG HL
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

6C - Rear View Camera System
4L0910441B
J772__Rearview
Coding 1021201
Dealer number 31414
4L0907441B
H03
0030

0Event(s) detected

6D - Rear Lid Electronics
4L0910945
ValeoHeckdeckel H55
Dealer number 98765
4L0827851E
H55
0500

4L0910946
ValeoHeckdeckel H55
Dealer number 98765
4L0827852E
H55
0500

0Event(s) detected

72 - Door Electronics, right rear
4F0959795M
TSG HR
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

76 - Acoustic Parking Aid, 8 channel
4L0910283C
Parkhilfe 8-Kan H02
Coding 221266
Dealer number 31414
4L0919283C
H02
0500

0Event(s) detected

Steps completed:

No.	Mask / Test Name / Function / Test step	Result
1.	DiagnosisStart	21.07.201013:39
2.	Vehicle Identification	
3.	Vehicle System Test	
4.	Vehicle system test completed 1	
5.	Function Test	
6.	Function Test 1: Start_Protokoll_laufleistung_21	OK
7.	Function Test	
8.	Function Test 2: GWK_Start_Hinweis_21	OK
9.	Function Test	
10.	Function Test 3: SYS___4L_____1_0506_21_Hauptprogramm_Meldepflicht	OK
11.	Function Test	
12.	Function Test 4: J623____23_____1_1208_21_NMK	OK
13.	Function Test	
14.	Function Test 5: J285____90_____1_1008_21_historiendaten_lesen	OK
15.	Function Test	
16.	Function Test 6: Unberechtigte_FSP_4L_2_1007_21	OK
17.	Fault Memory Contents	
18.	Test Plan 1	
19.	Function Test 7: G685_4L_26_CCMA_1_0908_21 G685-Reducing Agent Temperature Sensor	X

20. Test Plan 2
21. Fault Memory Contents
22. Test Plan 3
23. Function Test 8: G685_4L_26_CCMA_1_0908_21 ?
    G685-Reducing Agent Temperature Sensor

Test Plan1:

System Test Plan
Mot6000 - (P205A) Reductant Tank Temperature Sensor Circuit
- G685-Reducing Agent Temperature Sensor
Eze6000 - (02746) Right daytime running light lamp - Short circuit to Ground
- L175-Right Daytime Running Light (DRL) Lamp (RG.94)

Test Plan2:

System Test Plan
Mot6000 - (P205A) Reductant Tank Temperature Sensor Circuit
X G685-Reducing Agent Temperature Sensor

Test Plan3:

System Test Plan
Mot6000 - (P205A) Reductant Tank Temperature Sensor Circuit
? G685-Reducing Agent Temperature Sensor
Eze6000 - (02746) Right daytime running light lamp - Short circuit to Ground
- L175-Right Daytime Running Light (DRL) Lamp (RG.94)

Function Test1: Start_Protokoll_laufleistung_21

Test Step / Action	Outputs	Result
Test Step : Determine mileage from SGBD		
Diagnosis		OK
		OKAY
		SCH6000
Diagnosis		OK
		7930
		OKAY
Diagnosis		OK
		OKAY
Test Step : Supplement protocol distance		
Function Test		**OK**

Function Test2: GWK_Start_Hinweis_21

Test Step / Action	Outputs	Result
Test Step : Note for warranty claim		
Signal	YZ***NOTE:*** *When exiting Guided Fault Finding the diagnostic protocol is automatically transmitted online.* *The diagnostic protocol must contain the correct order number and Vehicle Identification Number (VIN). If no diagnostic protocol is available, we reserve the right to reject the warranty claim.* ***The diagnostic connector may only be disconnected prematurely when instructed to do so!***	
Input	- Enter correct work order number:	
Test Step : Note for test requirements		
Signal	**General test requirements:** I Battery voltage OK. I Fuses OK. A *Wiring diagram* I Ground (GND) connections tight and without corrosion or oxidation *(loosen and clean GND connections)*. A *Wiring diagram* I Electrical wiring as well as test instrument leads should only be connected or disconnected with the ignition switched off.	
Test Step : Notes on Start/Stop System		
Signal	**Safety precautions for vehicles with start/stop system.** ST ***WARNING!*** *Risk of personal injury due to automatic engine start on vehicles with start/stop system.* J *On vehicles with activated start/stop system (recognizable by a message in the instrument cluster) the engine may start automatically, as required.* J *When working on the vehicle, make sure the start/stop system is deactivated (switch ignition OFF, if required switch ignition ON again).*	
Beginning sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	
Test Step : Reading Vehicle Identification Number (VIN)		
Diagnosis		OK
		1
		OKAY
		MOT6000
Diagnosis		OK
		WA1JMCFEXAD[redacted]
		OKAY
End sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	OK
Function Test		**OK**

Function Test3: SYS_4L_1_0506_21_Hauptprogramm_Meldepflicht

Test Step / Action	Outputs	Result
Beginning sub-function:	sys_____1_0506_21_MPF2006_1	
Test Step : Importer		
End sub-function:	sys_____1_0506_21_MPF2006_1	OK
Beginning sub-function:	sys_____1_1206_21_MPF2006_6	
Test Step : Importer		
End sub-function:	sys_____1_1206_21_MPF2006_6	OK
Beginning sub-function:	sys_____1_0407_21_MPF2007_4	
Test Step : Importer		
End sub-function:	sys_____1_0407_21_MPF2007_4	OK

Beginning sub-function:	sys_____1_0408_21_MPF2008_3	
Test Step : Importer		
End sub-function:	sys_____1_0408_21_MPF2008_3	OK
Beginning sub-function:	sys_____1_0309_21_MPF2009_1	
Test Step : Importer		
Test Step : Dealer number		
Test Step : Assigning DTC memory		
End sub-function:	sys_____1_0309_21_MPF2009_1	OK
Beginning sub-function:	sys_____1_1009_21_MPF2009_7	
Test Step : Importer		
End sub-function:	sys_____1_1009_21_MPF2009_7	OK
Function Test		**OK**

Function Test4: J623____23____1_1208_21_NMK

Test Step / Action	Outputs	Result
Test Step : Selection		
Test Step : V6 TDI		
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		54
		55
		55
Diagnosis		OK
Diagnosis		OK
		11111111
		00111111
Diagnosis		OK
Diagnosis		OK
		-9
		-2
		-7
Diagnosis		OK
Diagnosis		OK
		-9
		-6
		-11
Diagnosis		OK
Diagnosis		OK
		-16
		-7
		-12
Diagnosis		OK
Diagnosis		OK
		-14
		-5
		-14
Diagnosis		OK
Diagnosis		OK
		-8
		-3
		-13
Diagnosis		OK
Diagnosis		OK
		-20
		-13
		-18
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		BPG-810 02.03.10
		31H02-– 1479.0058
Diagnosis		OK
Diagnosis		OK
		WA1JMCFEXAD[redacted]
		<>
Diagnosis		OK
Diagnosis		OK
		0000000000000
		00.00.00 <> <> <> <>
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		94.40
		-277.30
		47.20
Diagnosis		OK
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		100.30
		354.00

64.90
47.20
Diagnosis OK
Diagnosis OK
0
00000110
0
0
Diagnosis OK
Diagnosis OK
0
0
00000000
2.68
Diagnosis OK
Diagnosis OK
375
373
377
414
Diagnosis OK
Diagnosis OK
00000100
01110101
00001011
00000000
Diagnosis OK
Diagnosis OK
1.00
1.02
1.01
1.00
Diagnosis OK
Diagnosis OK
1.01
1.00
0
0
Diagnosis OK
Diagnosis OK
0
0
0
0
Diagnosis OK
Diagnosis OK
70.20
Diagnosis OK
Function Test **OK**

Function Test5: J285____90____1_1008_21_historiendaten_lesen

Test Step / Action	Outputs	Result
Test Step : Extended Service Interval - reading history data		
Diagnosis		OK

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Diagnosis OK

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Function Test **OK**

Function Test6: Unberechtigte_FSP_4L_2_1007_21

Test Step / Action	Outputs	Result
Beginning sub-function:	unberechtigte_fsp_4l_1_0108_21	
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
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Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Output unauthorized malfunction		
End sub-function:	unberechtigte_fsp_4l_1_0108_21	OK
Function Test		**OK**

Function Test7: G685_4L_26_CCMA_1_0908_21

Test Step / Action	Outputs	Result
Test Step : Safety precautions		
Signal	**- Observe the following when working on the reduction agent system:** S*T**WARNING!*** I *The pressure lines of the reduction agent system may be*	

under pressure:
In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.
I *Skin irritation caused by reducing agent.*
Use hand and eye protection!

Signal **- When working with reducing agent, observe the following:**
ST***WARNING!***
I *Avoid direct skin and eye contact!*
Use hand and eye protection!
I *If reducing agent came in contact with skin, wash skin with soap and water.*
I *If reducing agent gets in the eye, flush eye several minutes with water.*
I *Do not inhale or swallow reducing agent !*
I *In the event that reducing agent was swallowed, drink a lot of water and locate immediately a clinic for accidents or inform a Doctor.*

Test Step : .
Test Step : P205A
Test Step : .
Test Step : Checking harness connnectors

Question - Switch ignition off. — Yes
- Check whether the electrical harness connector on the temperature sensor is connected and properly engaged.
- Check also all other electrical connectors in the relevant wire path.
Were all harness connectors attached and properly engaged?

Question - Check harness connector on temperature sensor for:I Bent, pushed-in pins — Yes
I Loose contact
I Contact corrosion, water incursion.
- Check also all other electrical connectors in the relevant wire path.
Are the connectors OK?

Test Step : Wiring checking

Signal - Switch ignition off.
Auxiliary test equipment:
I Latest engine wiring diagram
I VAG 1598/42 Test Box 105 Pin
I VAG 1598/39-1 Adapter Lead

Question - Check both wires between temperature sensor and Engine Control Module (ECM) -J623- for: — Yes
I Open circuit
I Short circuit to B+
(e.g. terminal 15, 30)
Are the wires OK?

Test Step : Checking temperature sensor measuring value

Signal
- Switch ignition off.
- Reconnect the harness connector to temperature sensor .
- Connect VAG 1598/42 Test Box 105-Pin with VAG1598/39 Adapter Cable to engine control module and wiring harness.
- Jumper pin T60/57 to battery Ground (GND) using an appropriate test lead.
- Now switch the ignition on again.

Diagnosis — OK
OKAY
3.30

Diagnosis — OK

Signal
- Now switch ignition off.
- Remove jumper cable from test box.

Signal
Measuring value on sensor: 3.3 V
The engine control module is faulty.
- Replace Engine Control Module (ECM).

Question K ***NOTE:*** *If reducing agent was drained, or the Active tank (not Passive tank) or the Reducing agent pump or the Reducing agent injector or a line for reducing agent or the ECM was replaced, then the* ***<Adapt Reducing Agent Tank adapt. values>*** *function must be performed.* — No
Is/was one of the listed works performed or is/was a component replaced?

Signal YZ ***NOTE:***
After the function test has been completed, do not forget to reverse all steps that were necessary for the function test (for example: disconnected harness connectors, pulled out fuses etc.) and therefore re-establishing the vehicles original condition.

Function Test — **X**

Function Test8: G685_4L_26_CCMA_1_0908_21

Test Step / Action	Outputs	Result
Test Step : Safety precautions		
Signal	**- Observe the following when working on the reduction agent system:** ST***WARNING!*** I *The pressure lines of the reduction agent system may be under pressure:* *In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.* I *Skin irritation caused by reducing agent.* *Use hand and eye protection!*	Instruction interrupted

Function Test — **?**

Function Test9: G685_4L_26_CCMA_1_0908_21

Test Step / Action	Outputs	Result
Test Step : Safety precautions		
Signal	**- Observe the following when working on the reduction agent system:** ST***WARNING!*** I *The pressure lines of the reduction agent system may be under pressure:*	Instruction interrupted

In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.
I Skin irritation caused by reducing agent. Use hand and eye protection!

VAS 5051B **Diagnosis log** 12.07.201003:04

NOTE:
The stylesheet file version does not match this file version.:
XSL V.75 / XML V.78

Protocol display can be inconsistent

Workshop code:
8404844440636

Version:
Base V16.00.01 11/12/2009
Audi V16.16.00 19/11/2009

Dealership identifier:
Wyoming Valley Motors

License plate:
F

Vehicle Identification Number (VIN):
WA1LMAFE5AD[redacted]

Vehicle:

Marque:	Audi
Type:	Audi Q7 USA/CDN 2007>
Model year:	2010 (A)
Body version:	SUV
Engine code:	CATA 3.0l TDI / 165 kW

Diagnostic time expenditure (TU): 48

Event memory 1:

01 - Engine Electronics
4L1910401G
3.0TDI EDC17G000AG
Coding long
Dealer number 31414
4L0907401B
H02
0060

2Event(s) detected

08282 P205A 000
Reductant Tank Temperature Sensor Circuit
Sporadic

Ambient requirements:

Standard values:	
Date	29.04.10
Time	16:01:56
Mileage	0000423
Priority	2
Malfunction occurrence counter	79
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	1950 /min
Value 2	14.2 V
Value 3	68.6 %
Value 4	17.1 °C
Value 5	4.0 bar
Value 6	-40.5 °C
Value 7	1.860 V

08283 P205B 001
Reductant Tank Temperature Sensor Circuit Range/Performance
Sporadic

Ambient requirements:

Standard values:	
Date	07.07.10
Time	08:58:48
Mileage	0008026
Priority	2
Malfunction occurrence counter	1
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	1150 /min
Value 2	11.6 V
Value 3	1.860 V
Value 4	28.8 °C
Value 5	-40.5 °C
Value 6	40.5 °C

Value 7	29.5 °C

5F - Information Electronics 1
4L0035664A
H-BN-NA
Coding long
Dealer number 31414
4L0035664A
H47
0042

8R0060884F
NAR 2009/2010
Coding ----
Dealer number ----

--
5304

4F0919604
DU7 High
Coding ----
Dealer number ----
4F0919604
H43
0306

4L0910609
E0380 Bedient
Coding ----
Dealer number ----
4L0919611B
H05
0060

8R0906961A
CD-Database
Coding ----
Dealer number ----

--
1293

1Event(s) detected

02244 000
Button in operating part jams
Sporadic

Ambient requirements:

Standard values:	
Date	04.07.10
Time	11:02:41
Mileage	0007770
Priority	5
Malfunction occurrence counter	1
Unlearning counter / Driving cycle	222
Measured values:	
Value 1	12.4 V
Value 2	10000000 00000000
Value 3	00000000 00000000

6F - Central Comfort System II
4L0910290A
ILM HINTEN 2 H05
Coding 3595
Dealer number 31414
4L0907290A
H05
0060

4L0910591
J_245_EE16_SKB09H10
Dealer number 31414
4L0959591
--
0200

4L0910591
J_394_EE16_SKB09H10
Dealer number 31414
4L0959591
--
0200

4L0910591
J_392_EE16_SKB09H10
Dealer number 31414
4L0959591
--
0200

0Event(s) detected

02 - Automatic Transmission 09D
09D927750LL
AL 750 6A
Coding 1016
Dealer number 31414
09D927750LL
H92
1579

0Event(s) detected

03 - ABS/ESP Mark 25 E1

4L0910517K
ESP ALLRAD MK25E1
Coding 99473
Dealer number 31414
4L0614517K
H30
0020

0Event(s) detected

05 - Access/Start Authorization System
4F0910852B
FBSAUDIC6 ELV H05
Coding 131
Dealer number 31414
4F0905852D
H05
0100

4F0910132J
FBSAUDIC6 EZS H03
Dealer number 00000
4F0909135J

0020

4F0910220A
FBSAUDIC6 IDG H01
Dealer number 00000
4F0837220N

0054

0Event(s) detected

08 - Climate Control, Comfort
4L0910043C
KLIMA 4 ZONEN
Coding long
Dealer number 31414
4L0820043AB
H12
0030

0Event(s) detected

09 - Vehicle Electrical System
4F0910279R
ILM Fahrer H26
Coding 39123
Dealer number 31414
4F0907279
000
0340

4L1910113
Wischer AU716 H17
Coding 64792
Dealer number 31414
4L1955119A

0100

8K0910557
REGENLICHTSENSORH04
Coding 150059
Dealer number 31414
8K0955559B

0003

0Event(s) detected

0E - CD Changer (pos. 1)
4F0035110A
CDC-MP3-Alp
Dealer number ----
4F0035110
H44
0140

0Event(s) detected

15 - Airbag 8R
4L0910655A
73 AIRBAG AUDI8RH43
Coding 14131
Dealer number 31414
4L0959655B
H43
0230

4L0910339A
BF-Gewichtsens. H03
Dealer number 00000
4L0959339A

0030

0Event(s) detected

16 - Steering Wheel Electronics
4F0910549A
J0527
Coding 2242
Dealer number 31414
4F0953549C
H06
0530

XXXXXXXXXXX
E0221 H02
Dealer number 00000

0100

0Event(s) detected

17 - Instrument Cluster expanded ESI
4L0920982P
KOMBIINSTR.
Coding long
Dealer number 31414
4L0920982P
H08
0147

0Event(s) detected

19 - Data Bus On Board Diagnostic Interface (Gateway)
4F0907468M
GW-BEM 4CAN-M
Coding long
Dealer number 31414
4F0907468F
H06
0035

8K0915181D
J367-BDM
Coding ----
Dealer number ----
8K0915181D
H07
0125

0Event(s) detected

36 - Seat Adjustment, Driver's Side
4F0959760C
MEM-FS
Coding long
Dealer number 31414
4F0959760C
H08
0062

0Event(s) detected

42 - Door Electronics, Driver's Side
4F0959793R
TSG FA
Coding long
Dealer number 31414
8K0959793D
H11
0250

0Event(s) detected

46 - Comfort System Central Control Module w/anti-theft w.
4L0910289H
Komfortgeraet H10
Coding 3569821
Dealer number 31414
4L0907289H
10
0110

1K0951605C
LIN BACKUP HORN H05
Dealer number 00000

1501

0Event(s) detected

47 - Digital Sound Package (Bose)
4L0035223E
BOSE G3 AU716
Coding long
Dealer number 31414
4L0035223E
H01
0100

0Event(s) detected

4C - Tire Pressure Monitoring (TPM) II
4F0910274A
J793 RKA+ H02
Coding 696013
Dealer number 31414
4F0907274
000
0100

0Event(s) detected

4F - Vehicle Electrical System 2
4F0910280
ILM Beifahrer H13
Coding 12001
Dealer number 31414
4F0907280D
0100

0Event(s) detected

52 - Door Electronics, Passenger's Side
4F0959792R
TSG BF
Coding long
Dealer number 31414
8K0959792D
H11
0250

0Event(s) detected

55 - Dynamic Headlight Range Control w/o AFS
8P0907357H
Dynamische LWR H02
Coding 7
Dealer number 31414

000
0010

0Event(s) detected

56 - Radio (MMI 3G)
4F0035082A
Radio U SIRIU
Coding long
Dealer number 31414
4F0035082
H45
0021

0Event(s) detected

62 - Door Electronics, left rear
4F0959795M
TSG HL
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

6C - Rear View Camera System
4L0910441B
J772__Rearview
Coding 1021101
Dealer number 31414
4L0907441B
H03
0030

0Event(s) detected

6D - Rear Lid Electronics
4L0910945
ValeoHeckdeckel H29
Dealer number 98765
4L0827851D
H29
0410

4L0910946
ValeoHeckdeckel H29
Dealer number 98765
4L0827852D
H29
0410

0Event(s) detected

72 - Door Electronics, right rear
4F0959795M
TSG HR
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

76 - Acoustic Parking Aid, 8 channel
4L0910283C
Parkhilfe 8-Kan H02
Coding 221266
Dealer number 31414
4L0919283C
H02
0500

0Event(s) detected

Event memory 2:

Steps completed:

No.	Mask / Test Name / Function / Test step	Result
1.	DiagnosisStart	12.07.201002:13
2.	Vehicle Identification	
3.	Vehicle System Test	
4.	Vehicle system test completed 1	
5.	Function Test	
6.	Function Test 1: Start_Protokoll_laufleistung_21	OK
7.	Function Test	
8.	Function Test 2: Unberechtigte_FSP_4L_2_1007_21	OK
9.	Function Test	

10. Function Test 3: J623____23_____1_1208_21_NMK OK
11. Function Test
12. Function Test 4: GWK_Start_Hinweis_21 OK
13. Function Test
14. Function Test 5: SYS___4L_____1_0506_21_Hauptprogramm_Meldepflicht OK
15. Function Test
16. Function Test 6: J285____90_____1_1008_21_historiendaten_lesen OK
17. Fault Memory Contents
18. Test Plan 1
19. Function Test 7: G685_4L_26_CCMA_1_0908_21 X
    G685-Reducing Agent Temperature Sensor
20. Test Plan 2
21. Function / Component Selection
22. Test Plan 3
23. Function Test 8: A____8K_27_____1_0906_21_batterietest OK
    A-Battery, testing (RG. 27)
24. Test Plan 4
25. Function / Component Selection
26. Test Plan 5
27. Function Test 9: J285_8K_90_____8_1206_21_inspektions_service_USA OK
    17 - Inspection Service USA - every 10,000 miles
28. Test Plan 6
29. Function / Component Selection
30. Vehicle Self-Diagnosis
31. Function / Component Selection
32. Function Test 10: E380_8R_91_____1_0108_21_Taste_klemmt ?
    E380-Multimedia Control Head, buttons (RG.91)
33. Vehicle system test completed 2
34. Function Test
35. Function Test 11: Katalysatordiagnose_USA X
36. Function Test
37. Function Test 12: J533_B8_27_____1_0408_21_historiendaten OK
38. Function Test
39. Function Test 13: IUMPR_____2_1003_21_Datenlesen X
40. Function Test
41. Function Test 14: Diagnoseprotokoll_senden_21 OK

Test Plan1:

System Test Plan
Engine Electronic - (P205B) Reductant Tank Temperature Sensor Circuit Range/Performance , Engine Electronic - (P205A) Reductant Tank Temperature Sensor Circuit
- G685-Reducing Agent Temperature Sensor

Information electronics 1 - (02244) Button in operating part jams -
- E380-Multimedia Control Head, buttons (RG.91)

Test Plan2:

System Test Plan
Engine Electronic - (P205B) Reductant Tank Temperature Sensor Circuit Range/Performance , Engine Electronic - (P205A) Reductant Tank Temperature Sensor Circuit
X G685-Reducing Agent Temperature Sensor

Test Plan3:

User Test Plan
- A-Battery, testing (RG. 27)

Test Plan4:

User Test Plan
OK A-Battery, testing (RG. 27)

Test Plan5:

User Test Plan
- 17 - Inspection Service USA - every 10,000 miles

Test Plan6:

System Test Plan
Engine Electronic - (P205B) Reductant Tank Temperature Sensor Circuit Range/Performance , Engine Electronic - (P205A) Reductant Tank Temperature Sensor Circuit
X G685-Reducing Agent Temperature Sensor

Information electronics 1 - (02244) Button in operating part jams -
- E380-Multimedia Control Head, buttons (RG.91)

User Test Plan
OK A-Battery, testing (RG. 27)
OK 17 - Inspection Service USA - every 10,000 miles

Function Test1: Start_Protokoll_laufleistung_21

Test Step / Action	Outputs	Result
Test Step : Determine mileage from SGBD		
Diagnosis		OK
		OKAY
		SCH6000
Diagnosis		OK
		8600
		OKAY
Diagnosis		OK
		OKAY
Test Step : Supplement protocol distance		
Function Test		**OK**

Function Test2: Unberechtigte_FSP_4L_2_1007_21

Test Step / Action	Outputs	Result
Beginning sub-function:	unberechtigte_fsp_4l_1_0108_21	
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		
Test Step : Checking DTC memory		

Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Output unauthorized malfunction
End sub-function: unberechtigte_fsp_4l_1_0108_21 OK
Function Test **OK**

Function Test3: J623___23____1_1208_21_NMK

Test Step / Action	Outputs	Result
Test Step : .		
Test Step : V6 TDI		
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		53
		54
		54
Diagnosis		OK
Diagnosis		OK
		11110111
		00111111
Diagnosis		OK
Diagnosis		OK
		-21
		-2
		-14
Diagnosis		OK
Diagnosis		OK
		-12
		-2
		-10
Diagnosis		OK
Diagnosis		OK
		-10
		-2
		-5
Diagnosis		OK
Diagnosis		OK
		-7
		8
		-4
Diagnosis		OK
Diagnosis		OK
		-8
		9
		4
Diagnosis		OK
Diagnosis		OK
		-11
		0
		-11
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		BPG-810 13.02.10
		31H02--- 1328 0103
Diagnosis		OK
Diagnosis		OK
		WA1LMAFE5AD[redacted]
		<>
Diagnosis		OK
Diagnosis		OK
		0000000000000
		00.00.00 <> <> <> <>
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		76.70
		-277.30
		59.00
Diagnosis		OK
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		70.80
		354.00
		59.00
		59.00
Diagnosis		OK

Diagnosis	OK
	0
	00000110
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	00000000
	2.68
Diagnosis	OK
Diagnosis	OK
	375
	373
	377
	414
Diagnosis	OK
Diagnosis	OK
	10111011
	01001000
	00001010
	00000000
Diagnosis	OK
Diagnosis	OK
	1.03
	1.02
	1.01
	1.00
Diagnosis	OK
Diagnosis	OK
	1.00
	1.02
	0
	0
Diagnosis	OK
Diagnosis	OK
	0
	0
	0
	0
Diagnosis	OK
Diagnosis	OK
	64.80
Diagnosis	OK
Function Test	**OK**

Function Test4: GWK_Start_Hinweis_21

Test Step / Action	Outputs	Result
Test Step : Note for warranty claim		
Signal	YZ ***NOTE:*** *If the completed repairs are being claimed through warranty, it is absolutely necessary to send the diagnostic protocol online when exiting Guided Fault Finding. It is absolutely necessary that the diagnostic protocol contains the correct work order number and VIN. If no diagnostic protocol is present, the warranty claim will be rejected. The diagnostic connector can only be prematurely disconnected based on instructions.*	
Test Step : Note for test requirements		
Signal	**General test requirements:** I Battery voltage OK. I Fuses OK. A *Wiring diagram* I Ground (GND) connections tight and without corrosion or oxidation *(loosen and clean GND connections)*. A *Wiring diagram* I Electrical wiring as well as test instrument leads should only be connected or disconnected with the ignition switched off.	
Function Test		**OK**

Function Test5: SYS___4L____1_0506_21_Hauptprogramm_Meldepflicht

Test Step / Action	Outputs	Result
Beginning sub-function:	sys_____1_0506_21_MPF2006_1	
Test Step : Importer		
End sub-function:	sys_____1_0506_21_MPF2006_1	OK
Beginning sub-function:	sys_____1_1206_21_MPF2006_6	
Test Step : Importer		
End sub-function:	sys_____1_1206_21_MPF2006_6	OK
Beginning sub-function:	sys_____1_0407_21_MPF2007_4	
Test Step : Importer		
End sub-function:	sys_____1_0407_21_MPF2007_4	OK
Beginning sub-function:	sys_____1_0408_21_MPF2008_3	
Test Step : Importer		
End sub-function:	sys_____1_0408_21_MPF2008_3	OK
Beginning sub-function:	sys_____1_0309_21_MPF2009_1	
Test Step : Importer		
Test Step : Dealer number		
Test Step : Assigning DTC memory		
End sub-function:	sys_____1_0309_21_MPF2009_1	OK
Beginning sub-function:	sys_____1_1009_21_MPF2009_7	
Test Step : Importer		
End sub-function:	sys_____1_1009_21_MPF2009_7	OK
Function Test		**OK**

Function Test6: J285___90____1_1008_21_historiendaten_lesen

Test Step / Action Outputs Result
Test Step : Extended Service Interval - reading history data
Diagnosis OK
4FF000290FF0001C8FF0001CCFF00029FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Diagnosis OK
FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Function Test **OK**

Function Test7: G685 4L 26 CCMA 1 0908 21

Test Step / Action Outputs Result
Test Step : Safety precautions
Signal **- Observe the following when working on the reduction agent system:**
S*T**WARNING!***
I The pressure lines of the reduction agent system may be under pressure:
In order to catch reducing agent when opening the pressure lines, cover the sealing part with rags and open carefully.
I Skin irritation caused by reducing agent:
Use hand and eye protection!
Signal **- When working with reducing agent, observe the following:**
S*T**WARNING!***
I Avoid direct skin and eye contact!
Use hand and eye protection!
I If reducing agent came in contact with skin, wash skin with soap and water.
I If reducing agent gets in the eye, flush eye several minutes with water.
I Do not inhale or swallow reducing agent !
I In the event that reducing agent was swallowed, drink a lot of water and locate immediately a clinic for accidents or inform a Doctor.
Test Step : .
Test Step : P205A
Test Step : .
Signal The DTC memory entry is sporadic.
An exact malfunction localization is not possible!
Possible malfunction causes are:
- Sensor supply or Ground (GND) wire damaged or contact problem
- Temperature sensor for reducing agent faulty
- Engine control module faulty
Question K ***NOTE:*** *If reducing agent was drained, or the Active tank (not Passive tank) or the Reducing agent pump or the Reducing agent injector or a line for reducing agent or the ECM was replaced, then the* ***<Adapt Reducing Agent Tank adapt. values>*** *function must be performed.* No
Is/was one of the listed works performed or is/was a component replaced?
Function Test **X**

Function Test8: A 8K 27 1 0906 21 batterietest

Test Step / Action Outputs Result
Test Step : Entry
Signal **In this test program the following steps will be performed:**
J Displaying measuring values
J Evaluating measuring values
J Possible results: - Battery OK - Replacing battery - Charging battery
No auxiliary equipment is required.
Signal - If a battery charger is connected, disconnect it now.
Question **What battery test should be performed?** - 1 -
1. Battery test for used batteries
2. Battery test for new batteries as part of the pre-delivery inspections
Test Step : Question
Question **Was the Battery Monitoring Control Module -J367- flashed in the last 5 days?** No
or
was a new battery adapted in the last 5 days?
Test Step : Visual inspection
Signal First, a visual inspection of the battery should be carried out. Check the following:
- Battery poles (should not be greased)
- B+ and Ground (GND) cable should be firmly fastened on battery poles (tightening torque of battery terminals: see Repair Manual; Repair Group 27)
- Battery housing for damage
- Acid level
Question **Is the battery and the wiring OK?** Yes
Signal - Switch on ignition.
Signal Additional data is read out.
Test Step : Communication test
Diagnosis OK
4F0907468F
0035
OKAY
Signal Job status = OKAY
Hardware part number = 4F0907468F
Software version = 0035
Test Step : Reading data
Diagnosis OK
2010-07-04-12:01*00.1*01*00041***
2010-06-19-18:24*00.0*01**
2010-06-14-11:38*00.0*01**
2010-05-17-11:26*00.4*01**
2010-05-06-15:24*19.8*01**

2010-04-27-
15:12*18.5*01**
2010-04-26-
13:36*02.0*01**
2000-01-01-
00:00*00.0*00*00000***
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00*00000***
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
Diagnosis OK
2010-03-10-
20:36*01*8K0915105F
*MLA*1A2N61A
*09988*01092*0000*0000*0000**
2000-01-01-
00:00*00*--------
XXX-------
*09997*00007*0000*0000*0000**
2000-01-01-
00:00*00*--------
XXX-------
*00000*00000*0000*0000*0000**
2000-01-01-
00:00*00*--------
XXX-------
*00000*00000*0000*0000*0000**
2000-01-01-
00:00*00*--------
XXX-------
*00000*00000*0000*0000*0000**
Diagnosis OK
-27.30
11.90
27
Diagnosis OK
61.00
Diagnosis OK
2.80
Diagnosis OK
Diagnosis OK
Diagnosis OK
384B303931353130354620204D4C41203141324E363141202020
Diagnosis OK
Signal 61 = SOC 20
11.9 = battery voltage
-27.3 = battery current
27 = battery temperature
2.8 = standardized
Test Step : Determining capacity (0)
Signal Battery part number = 384B303931353130354620
Test Step : Determining capacity (1)
Signal Capacity: 110
maximum internal resistance: 7
Test Step : Current battery number
Signal str single characters = 1
Signal Running battery number of currently installed battery: 1
Test Step : Battery replacement chronic
Signal Exceeding battery temperature (75) in hours:
0
Exceeding battery temperature (60 - 75) in hours:
0
Energy throughput:
1092
Raw data:
2010-03-10-20:36*01*8K0915105F *MLA*1A2N61A
*09988*01092*0000*0000*0000**
2000-01-01-00:00*00*--------*XXX*-------
*09997*00007*0000*0000*0000**
2000-01-01-00:00*00*--------*XXX*-------
*00000*00000*0000*0000*0000**
2000-01-01-00:00*00*--------*XXX*-------
*00000*00000*0000*0000*0000**
2000-01-01-00:00*00*--------*XXX*-------
*00000*00000*0000*0000*0000**
Test Step : 12.2 V (1)
Signal 12.2 V not reached = 0
Test Step : 11.6 V (1)
Signal 11.6 V not reached = 0
Test Step : Calculation (1)
Test Step : State of Charge (SOC)
Test Step : Calculation (2)
Test Step : Calculation (3)
Test Step : Result
Signal The battery is OK.

Signal	END OF TEST	
Function Test		**OK**

Function Test9: J285_8K_90_____8_1206_21_inspektions_service_USA

Test Step / Action	Outputs	Result
Test Step : Checking country variant		
Question	**Select the country variant.** 1. USA 2. Canada	-1-
Test Step : .		
Diagnosis		OK
		8600
Diagnosis		OK
Diagnosis		OK
		0
		0
Diagnosis		OK
Diagnosis		OK
		96.00
Diagnosis		OK
Diagnosis		OK
		WA1LMAFE5AD[redacted]
Signal	***NOTE:*** - Make a screen shot via A*Print*A*Screen* and attach this print to the follow-up/billing invoice. *This screen shot may be required for possible warranty claims.* Vehicle Identification Number (VIN): WA1LMAFE5AD[redacted] Current mileage: 5343 miles Current date: 96.00 Service exceeded mileage: 0 miles Service exceeded time: 0 days	
Test Step : Inspection Service every 10,000 miles - USA		
Question	**Should the fixed service interval be reset?** YZ *Adjustment of Inspection Service is set to 10,000 miles and 365 days*	Yes
Diagnosis		OK
Diagnosis		OK
		OKAY
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
		0
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
		OKAY
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
		0
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
		OKAY
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
		0
Diagnosis		OK
Signal	The fixed service interval was reset successfully. In the following the adaptation channels for the oil change service and inspection service are checked for correct adaptation and if necessary corrected.	
Signal	Test is running... Please wait ... Adaptation channel 45: *is being checked...*	
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
Signal	Test is running... Please wait ... Adaptation channel 45: OK!	
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: *is being checked...*	
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK!	
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK! Adaptation channel 51: *is being checked...*	
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK! Adaptation channel 51: OK!	
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK! Adaptation channel 51: OK! Adaptation channel 52: *is being checked...*	
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK! Adaptation channel 51: OK!	

	Adaptation channel 52: OK!	
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK! Adaptation channel 51: OK! Adaptation channel 52: OK! Adaptation channel 54: *is being checked...*	
Diagnosis		OK
Diagnosis		OK
Diagnosis		OK
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK! Adaptation channel 51: OK! Adaptation channel 52: OK! Adaptation channel 54: OK!	
Signal	Test is running... Please wait ... Adaptation channel 45: OK! Adaptation channel 50: OK! Adaptation channel 51: OK! Adaptation channel 52: OK! Adaptation channel 54: OK! *all adaptation channels are correctly adjusted!* End of program	

Function Test **OK**

Function Test10: E380_8R_91_____1_0108_21_Taste_klemmt

Test Step / Action	Outputs	Result
Test Step : Initialization		
Test Step : Short description test		
Signal	**With this test program the following steps for the Multimedia Control Head -E380-** will be performed: I Checking buttons **Requirements:**I Appropriate VAS Diagnostic Cable **Required test equipment:** I none	Instruction interrupted

Function Test **?**

Function Test11: Katalysatordiagnose_USA

Test Step / Action	Outputs	Result
Test Step : Control module identification		
Signal	Data to generate the diagnosis are being read! - Please wait ...B YZ ***NOTE:*** *This procedure can take up to 1 minute.*	
Diagnosis		OK OKAY MOT6000
Diagnosis		Instruction interrupted
Beginning sub-function:	sys01__24_____1_0706_21_Katalysatordiagnose_USA	
Test Step : Master		
Test Step : Simos		
Test Step : Master: Read measuring value block		
Diagnosis		OK 0 0 0 0
Diagnosis		OK
Test Step : Slave		
Test Step : Evaluation		
Test Step : Evaluation		
Test Step : Supplement protocol master		
Test Step : Supplement protocol slave		
End sub-function:	sys01__24_____1_0706_21_Katalysatordiagnose_USA	X

Function Test **X**

Function Test12: J533_B8_27_____1_0408_21_historiendaten

Test Step / Action	Outputs	Result
Beginning sub-function:	j533_8k_90_____2_0906_21_histdaten_auslesen	
Test Step : Reading history data		
Signal	**Please wait!** **...Data is being read**	
Diagnosis		OK 2010-07-04-12:01*00.1*01*00041*** 2010-06-19-18:24*00.0*01** 2010-06-14-11:38*00.0*01** 2010-05-17-11:26*00.4*01** 2010-05-06-15:24*19.8*01** 2010-04-27-15:12*18.5*01** 2010-04-26-13:36*02.0*01** 2000-01-01-00:00*00.0*00*00000*** 2000-01-01-00:00*00.0*00** 2000-01-01-00:00*00.0*00** 2000-01-01-00:00*00.0*00** 2000-01-01-00:00*00.0*00** 2000-01-01-00:00*00.0*00** 2000-01-01-00:00*00.0*00** 2000-01-01-

```
00:00*00.0*00*00000***
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
Diagnosis                                            OK
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-
0*0*00*00000**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
Diagnosis                                            OK
2010-04-20-
15:13*4*0*081*073*-
26.62*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-20-
19:40*4*0*081*072*-
27.05*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-20-
19:08*4*0*083*073*-
13.36*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-20-
19:02*4*0*085*076*-
11.47*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-20-
17:00*4*0*085*074*-
11.99*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-20-
16:46*4*0*084*073*-
17.81*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-19-
12:21*4*0*085*073*-
16.50*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-19-
12:19*4*0*086*073*-
09.61*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-14-
14:48*4*0*085*073*-
12.72*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-12-
16:25*4*0*085*076*-
12.70*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-02-
07:58*4*0*083*067*-
11.81*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-04-02-
02:02*4*0*087*073*-
27.10*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-03-22-
20:50*4*0*093*083*-
10.29*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-03-22-
19:01*4*0*093*083*-
22.04*0-0-0-0-0-
0*0*0*00.0*00.0**
2010-03-17-
13:11*4*0*093*079*-
10.98*0-0-0-0-0-
0*0*0*00.0*00.0**
Diagnosis                                            OK
2010-03-10-
20:36*01*8K0915105F
```

```
                                   *MLA*1A2N61A
                                *09985*01094*0000*0000*0000**
                                       2000-01-01-
                                   00:00*00*--------
                                        *XXX*-------
                                *09997*00007*0000*0000*0000**
                                       2000-01-01-
                                   00:00*00*--------
                                        *XXX*-------
                                *00000*00000*0000*0000*0000**
                                       2000-01-01-
                                   00:00*00*--------
                                        *XXX*-------
                                *00000*00000*0000*0000*0000**
                                       2000-01-01-
                                   00:00*00*--------
                                        *XXX*-------
                                *00000*00000*0000*0000*0000**
Diagnosis                                                     OK
                2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
     000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
                2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
     000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
                2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
     000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
                2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
     000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
                2000-01-01-
00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
     000000*0-0-0-0-0-
0*0*00.0*00.0*000.0*00*00*00**
Diagnosis                                                     OK
                                          2010-07-12-
                                    08:12*077*+27*+000.3*00.02**
                                          2010-07-12-
                                    06:55*078*+27*+001.3*01.06**
                                          2010-07-11-
                                    12:51*076*+27*+000.7*00.26**
                                          2010-07-11-
                                    12:30*077*+27*+000.6*00.12**
                                          2010-07-11-
                                    12:23*078*+26*+000.3*00.04**
                                          2010-07-11-
                                    12:12*079*+26*+000.3*00.03**
                                          2010-07-11-
                                    11:41*080*+25*+000.7*00.36**
                                          2010-07-11-
                                    10:16*083*+24*+001.5*00.54**
                                          2010-07-10-
                                    21:14*072*+30*+000.8*00.15**
                                          2010-07-10-
                                    19:23*072*+30*+001.5*00.18**
                                          2010-07-10-
                                    17:01*074*+29*+001.0*00.71**
                                          2010-07-10-
                                    12:48*077*+29*+004.0*00.71**
                                          2010-07-09-
                                    22:24*072*+33*+001.3*00.14**
                                          2010-07-09-
                                    21:21*074*+33*+000.2*00.01**
                                          2010-07-09-
                                    21:09*071*+33*+000.6*00.15**
                                          2010-07-09-
                                    17:50*072*+32*+000.3*00.12**
                                          2010-07-09-
                                    17:35*073*+32*+000.7*00.16**
                                          2010-07-09-
                                    16:15*077*+32*+000.8*00.41**
                                          2010-07-09-
                                    15:56*077*+31*+001.0*00.17**
                                          2010-07-09-
                                    11:49*071*+31*+000.8*00.20**
Diagnosis                                                     OK
                                                2010-07-12-
                                                 07:59*078*-
                                         000.6*000.2*00.0*00.0**
                                                2010-07-11-
                                                 13:07*077*-
                                         001.2*017.8*00.0*00.0**
                                                2010-07-11-
                                                 12:37*076*-
                                         000.5*000.2*00.0*00.0**
                                                2010-07-11-
                                                 12:25*077*-
                                         000.5*000.0*00.0*00.0**
                                                2010-07-11-
                                                 12:14*078*-
                                         000.4*000.1*00.0*00.0**
                                                2010-07-11-
                                                 12:03*079*-
                                         000.5*000.1*00.0*00.0**
                                                2010-07-11-
                                                 10:48*078*-
                                         000.5*000.8*00.0*00.0**
                                                2010-07-10-
                                                 21:23*071*-
                                         001.4*012.9*00.0*00.0**
                                                2010-07-10-
                                                 19:34*064*-
                                         000.8*001.6*00.0*00.0**
                                                2010-07-10-
```

17:44*067*-
001.3*001.6*00.0*00.0**
2010-07-10-
13:31*066*-
000.7*003.5*00.0*00.0**
2010-07-09-
22:33*074*-
003.7*014.1*00.0*00.0**
2010-07-09-
21:22*065*-
000.9*001.0*00.0*00.0**
2010-07-09-
21:18*074*-
000.6*000.0*00.0*00.0**
2010-07-09-
17:57*067*-
000.8*003.1*00.0*00.0**
2010-07-09-
17:44*073*-
000.3*000.1*00.0*00.0**
2010-07-09-
16:40*069*-
000.8*000.8*00.0*00.0**
2010-07-09-
16:07*077*-
000.3*000.1*00.0*00.0**
2010-07-09-
12:01*076*-
001.0*003.8*00.0*00.0**
2010-07-09-
11:27*064*-
000.7*000.3*00.0*00.0**

Diagnosis OK

2010-03-11-
15:34*1*24*00*00*03*2000
-01-01-00:00*01**
2010-03-11-
15:14*1*23*00*00*03*2000
-01-01-00:00*01**
2010-03-11-
15:09*1*22*00*00*03*2000
-01-01-00:00*01**
2010-03-11-
14:56*1*21*00*00*03*2000
-01-01-00:00*01**
2010-03-11-
14:55*1*20*00*00*03*2000
-01-01-00:00*01**

Diagnosis OK

2010-06-29-
11:25*098*099*073*068*00940*12.40*+30*01**
2010-06-15-
10:59*098*100*085*082*00798*12.60*+24*01**
2010-05-31-
10:48*098*100*081*077*00604*12.50*+21*01**
2010-05-17-
07:14*098*097*079*071*00411*12.50*+16*01**
2010-05-03-
07:07*100*095*094*095*00213*12.70*+21*01**
2010-04-19-
12:18*100*099*084*071*00083*12.60*+05*01**
2010-04-02-
01:58*100*099*087*073*00075*12.60*+03*01**
2010-03-10-
21:02*100*100*070*060*00008*12.40*+22*01**
2009-10-12-
00:00*100*100*098*083*00000*12.80*+19*00**
2000-01-01-
00:00*000*000*000*000*00000*09.00*+00*00**
2000-01-01-
00:00*000*000*000*000*00000*09.00*+00*00**
2000-01-01-
00:00*000*000*000*000*00000*09.00*+00*00**

Diagnosis OK

2000-01-01-
00:00*0*000.0*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*0*000.0*00.00**
2000-01-01-
00:00*0*0*0*00.00**
2000-01-01-
00:00*0*0*0*00.00**
2000-01-01-
00:00*0*0*0*00.00**
2000-01-01-
00:00*0*0*0*00.00**
2000-01-01-
00:00*0*0*0*00.00**
2000-01-01-
00:00*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*00.00**
2000-01-01-
00:00*0*000.0*00.00**

Diagnosis OK

2010-07-05-
16:03*000*000*005*020*0283*036*00.0*00.9*090*087*090*088*01*00007*00010*00000*00024*00043**
2010-05-22-

14:59*000*000*000*000*0000*002*00.0*00.0*086*084*086*083*01**
2010-05-22-
14:34*000*000*005*010*0127*017*00.0*00.6*087*085*087*084*01**
2010-05-22-
14:02*000*000*005*004*0109*037*00.0*00.1*090*087*090*087*01**
2010-05-19-
08:11*000*000*000*000*0000*008*00.0*00.0*088*081*088*081*01**
2010-05-19-
07:10*000*000*000*005*0016*006*00.0*00.2*092*085*091*085*01**
2010-05-18-
08:11*000*000*000*007*0014*007*00.0*00.4*089*085*088*084*01**
2010-05-18-
07:10*000*000*000*006*0014*006*00.0*00.2*095*094*095*093*01**
2010-05-08-
09:52*000*000*002*013*0102*017*00.0*00.5*087*084*087*084*01**
2010-05-08-
08:40*000*000*012*005*0195*023*00.0*00.6*090*087*090*088*01**

Diagnosis OK

2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
00000*00000*00000*00000*00000*00000*00000*00000**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
2000-01-01-00:00*0-
0-0-0-0-0-0-0**
00000*00000*00000*00000*00000*00000*00000*00000**
2010-05-17-
14:26*2*059*050*+17*03*
-030*-24.87*13.1*1**
2010-05-17-
12:57*2*056*046*+17*03*
-030*-28.78*11.2*0**
2010-03-10-
22:59*2*060*045*+23*02*
-030*-21.11*12.2*0**
2000-00-00-
00:00*1*100*100*-
40*00*-
030*+00.00*13.5*1**
2000-00-00-
00:00*1*100*100*-
40*00*-
030*+00.00*13.5*1**
00000*00003*00000**

Diagnosis OK

2000-01-01-00:00*0-
0-0-0-
0*000.0*00000**
2000-01-01-00:00*0-
0-0-0-0*000.0**
2000-01-01-00:00*0-
0-0-0-0*000.0**
2000-01-01-00:00*0-
0-0-0-0*000.0**
2000-01-01-00:00*0-
0-0-0-0*000.0**

Diagnosis Instruction interrupted

Diagnosis OK

2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**
2000-01-01-
00:00*000*00*00*000*00*00*000*00*00**

Diagnosis OK

008605**
00054*00413*00496*00002*00000**
00930*00019*00005*00002**
02468*01115*00021*00000**
00183*00224*00284*00249**
00485*00341*00114**
00000*00000*00000*00000**
00670*00026*00016*00002**
00338*00004*00001**
00000*00000*00000**
00002*00000*00000**
00590*00001*00000*00000*00000*00000*00000*00000*00000**

Diagnosis OK

0035

Signal str_mw_beginn

Signal	Please wait! ...Data is being read
Test Step : Reading measuring values	
Diagnosis	OK
	0
	0
	0
	0
Test Step : Reading measuring values	
Diagnosis	OK
	10.60
	0.00
	0.00
	3.00
	V
	%
	A
	s
Test Step : Reading measuring values	
Diagnosis	OK
	OK
	n.OK
	OK
Test Step : Reading measuring values	
Diagnosis	OK
	OK
	3
	6
	0
Test Step : Reading measuring values	
Diagnosis	OK
	OK
	0
	8
	NO
Test Step : Reading measuring values	
Diagnosis	OK
	11.90
	-27.60
	27
	30
	V
	A
	°C
	°C
Test Step : Reading measuring values	
Diagnosis	OK
	59.00
	100.00
	98.00
	97.00
	%
	%
	%
	%
Test Step : Reading measuring values	
Diagnosis	OK
	3.00
	2.80
	42
	12.20
	mOhm
	mOhm
	Ah
	V
Test Step : Reading measuring values	
Diagnosis	OK
	115
	not valid
Test Step : Reading measuring values	
Diagnosis	OK
	136
	540
	540
	9
Test Step : Reading measuring values	
Diagnosis	OK
	11111111 11111011
	00000000 00010000
	540
	540
Test Step : Reading measuring values	
Diagnosis	OK
	0.00
	0.00
	0.00
	0.00
	A
	A
	Nm
	W
Test Step : Reading measuring values	
Diagnosis	OK
	0
	540
	540
	540
Test Step : Reading measuring values	
Diagnosis	OK
	00000000 00000000
	00000000 00000000

		00000000 00000000
Test Step : Reading measuring values		
Diagnosis		OK
		0
		0
		10.00
		30.00
		s
		A
Diagnosis		OK
Test Step : Conversion 490		
Test Step : Conversion 491		
Test Step : Conversion 492		
Test Step : Conversion 493		
Test Step : Conversion 494		
Test Step : Conversion 495		
Test Step : Conversion 496		
Test Step : Conversion 498		
Test Step : Conversion 499		
Test Step : Conversion 49A		
Test Step : Conversion 49B		
Test Step : Adding protocol		
End sub-function:	j533_8k_90_____2_0906_21_histdaten_auslesen	X
Test Step : Reading history data		
Function Test		**OK**

Function Test13: IUMPR 2 1003 21 Datenlesen

Test Step / Action	Outputs	Result
Signal	Data is evaluated. Please wait ... B	
Test Step : VARIANT control module 1		
Diagnosis		OK
		OKAY
		MOT6000
Test Step : Determining start requirements		
Signal	Startbedingungen ermitteln	
Signal	Data is evaluated. Please wait ... B	
Diagnosis		OK
		OKAY
		8600
		70
		343
		911
Diagnosis		OK
Diagnosis		OK
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		0
		4984
		106
		38
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		1
		9580
		363
		344
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		2
		9581
		363
		344
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		3
		5551
		39
		23
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		4
		8187
		38
		23
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		5

4484
112
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
6
9050
146
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
7
9952
27
10
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
8
9567
135
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
9
8194
24
10
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
10
9830
0
10
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
11
9951
13
10
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
12
5182
43
10
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
13
5183
674
10
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
14
8863
7
10
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
15
8852
3
10

Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	16
	11515
	196
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	17
	11516
	37
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	18
	4807
	141
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	19
	10624
	675
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	20
	12288
	433
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	21
	5120
	589
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	22
	5107
	136
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	23
	5117
	589
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	24
	5118
	407
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	25
	5127
	525
	344
Diagnosis	OK
	OKAY
Test Step : Reading data	

Diagnosis OK
OKAY
ECU_NichtInGE
26
5114
806
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
27
5104
697
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
28
9690
425
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
29
9691
15
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
30
9880
914
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
31
9659
440
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
32
9879
914
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
33
9660
914
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
34
9661
239
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
35
4951
325
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE

36
9949
49
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
37
9950
40
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
38
8675
325
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
39
4949
325
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
40
4950
325
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
41
9645
847
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
42
9658
793
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
43
9568
360
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
44
4817
715
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
45
4279
751
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
46
4794
488

344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
47
4818
267
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
48
8675
325
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
49
13011
646
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
50
13012
334
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
51
5171
342
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
52
5172
749
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
53
5242
890
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
54
4914
905
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
55
5162
874
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
56
5403
124
344
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
57
4928
122
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
58
4927
121
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
59
5168
908
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
60
8784
772
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
61
9653
225
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
62
5415
786
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
63
4926
109
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
64
8854
651
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
65
5404
125
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
66
4929
124
344
Diagnosis
OK
OKAY

Test Step : Reading data
Diagnosis
OK
OKAY

		ECU_InGE
		67
		9954
		10
		344
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		68
		9953
		107
		344
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		69
		8735
		743
		344
Diagnosis		OK
		OKAY
Test Step : Reading data		
Test Step : End of reading control module 1		
Diagnosis		OK
Signal	70 data records of 70 were read out.	
Test Step : VARIANT control module 2		
Signal	Additional data is evaluated. Please wait ... B	
Diagnosis		Instruction interrupted
Signal	Communication with the Engine Control Module (ECM) 2could not be established.	
Signal	END OF TEST	
Function Test		**X**

Function Test14: Diagnoseprotokoll_senden_21

Test Step / Action	Outputs	Result
Test Step : GFS Light?		
Beginning sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	
Test Step : Reading Vehicle Identification Number (VIN)		
Diagnosis		OK
		1
		OKAY
		MOT6000
Diagnosis		OK
		WA1LMAFE5AD[redacted]
		OKAY
End sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen	OK
Test Step : Reading Engine Data ?		
Test Step : Reading Transmission Data ?		
Test Step : Warranty?		
Question	**Do you want to claim the performed repairs through warranty?**	Yes
Test Step : Evaluation		
Test Step : Additional data		
Input	- Enter correct work order number:	
Test Step : Recording data		
Function Test		**OK**

VAS 5052 **Diagnosis log** 21.07.201015:06

NOTE:
The stylesheet file version does not match this file version.:
XSL V.75 / XML V.78

Protocol display can be inconsistent

Workshop code:
05347044402305

Version:
Base V17.00.00 16/02/2010
Audi V17.19.00 05/04/2010

Dealership identifier:
Maplewood Audi

License plate:
[redacted]

Vehicle Identification Number (VIN):
WA1CM74L39D[redacted]

Vehicle:

Marque:	Audi
Type:	Audi Q7 USA/CDN 2007>
Model year:	2009 (9)
Body version:	SUV
Engine code:	CATA 3.0l TDI / 165 kW

Diagnostic time expenditure (TU): 45

Event memory 1:

01 - Engine Electronics
4L0910401Q
3.0TDI EDC17G000AG
Coding long
Dealer number 22129
4L0907401B
H01
0040

1Event(s) detected

01724 P06BC 000
Glow plug cylinder 4 implausible signal

Ambient requirements:

Standard values:	
Date	21.07.10
Time	08:55:41
Mileage	0011846
Priority	2
Malfunction occurrence counter	1
Unlearning counter / Driving cycle	-
Measured values:	
Value 1	790 /min
Value 2	0 km/h
Value 3	13.3 V
Value 4	30.6 °C
Value 5	28.8 °C
Value 6	979 mbar
Value 7	167 Nm

07 - Display/operating unit high
4L0910732R
Interfacebox H43
Coding 2003
Dealer number 31414
4E0035729A
000
4610

4L0910609
E0380 BedienteilH01
Dealer number 00000
4L0919610B
000
0060

1Event(s) detected

00384 011
Optic data bus
Open Circuit
Sporadic

Ambient requirements:

Standard values:	
Date	21.07.10
Time	07:51:03
Mileage	0011846
Priority	5
Malfunction occurrence counter	1
Unlearning counter / Driving cycle	249

6F - Central Comfort System II
4L0910290A
ILM HINTEN 2 H05
Coding 3595
Dealer number 31414
4L0907290A
H05
0060

4L0910591
J_245_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_394_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

4L0910591
J_392_EE16_SKB09H10
Dealer number 31414
4L0959591

0200

0Event(s) detected

02 - Automatic Transmission 09D
09D927750FD
AL 750 6A
Coding 504
Dealer number 31414
09D927750FD
H78
1474

0Event(s) detected

03 - ABS/ESP Mark 25 E1
4L0910517B
ESP ALLRAD MK25E1
Coding 103569
Dealer number 31414
4L0614517D
H30
0010

0Event(s) detected

05 - Access/Start Authorization System w/Keyless Entry
4F0910852B
FBSAUDIC6 ELV H05
Coding 135
Dealer number 31414
4F0905852D
H05
0100

4F0910132L
FBSAUDIC6 EZS H03
Dealer number 00000
4F0909135L

0020

4F0910335B
FBSAUDIC6 KSG H03
Dealer number 00000
4L0907335B

0020

4F0910220G
FBSAUDIC6 IDG H01
Dealer number 00000
4F0837220AG

0040

0Event(s) detected

08 - Climate Control, Comfort
4L0910043B
KLIMABETAETIGUNGH07
Coding 131126
Dealer number 31414
4L0820043N

0040

0Event(s) detected

09 - Vehicle Electrical System
4F0910279N

ILM Fahrer H22
Coding 12123
Dealer number 31414
4F0907279
000
0320

4L1910113
Wischer AU716 H16
Coding 64792
Dealer number 31414
4L1955119A

0100

8K0910557
REGENLICHTSENSORH04
Coding 150059
Dealer number 31414
8K0955559B

0003

0Event(s) detected

0E - CD Changer (pos. 1)
4L0910110B
MP3-Changer H46
Dealer number 00000
4L0035110
046
0390

0Event(s) detected

0F - Radio Tuner Digital, SIRIUS
4E0910593M
SDAR SIRIUS H07
Coding 100
Dealer number 31414
4E0035593F
000
0160

0Event(s) detected

15 - Airbag 8R
4L0910655A
73 AIRBAG AUDI8RH43
Coding 14131
Dealer number 31414
4L0959655B
H43
0230

4L0910339A
BF-Gewichtsens. H03
Dealer number 00000
4L0959339A

0030

0Event(s) detected

16 - Steering Wheel Electronics
4F0910549A
J0527
Coding 2142
Dealer number 31414
4F0953549D
H03
0410

XXXXXXXXXXX
E0221 H02
Dealer number 00000

0030

0Event(s) detected

17 - Instrument Cluster expanded ESI
4L0920981Q
KOMBIINSTR.
Coding long
Dealer number 31414
4L0920981Q
H06
0135

0Event(s) detected

19 - Data Bus On Board Diagnostic Interface (Gateway)
4F0907468G
GW-BEM 5CAN-M
Coding long
Dealer number 31414
4F0907468G
H06
0024

8K0915181D
J367-BDM
Coding ----
Dealer number ----
8K0915181D
H07
0107

0Event(s) detected

1E - External Audio Source Connection (pos. 2)
4E0035785F
SG ext.Player
Coding long
Dealer number 00000
4E0035785C
H15
0850

0Event(s) detected

28 - Rear Climate Control Head
4L0910158
KLIMABETAETIGUNGH05
Coding 6
Dealer number 31414
4L0919158C

0060

0Event(s) detected

34 - Level Control System
4L0910553F
LUFTFDR -CDC H03
Coding 15510
Dealer number 31414
4L0907553
H03
7750

0Event(s) detected

36 - Seat Adjustment, Driver's Side
4F0959760C
MEM-FS
Coding long
Dealer number 31414
4F0959760C
H08
0062

0Event(s) detected

37 - Navigation System High
4E0910888M
MNS US H52
Dealer number 25807
4E0919887M
000
1100

0Event(s) detected

3C - Lane Change Assistance
4L0910566C
J0769_SWA_MasterH01
Coding 1
Dealer number 31414
4L0907566B
H01
0040

4L0910568C
J0770_SWA_Slave_H01
Dealer number 00000
4L0907568B
H01
0040

0Event(s) detected

42 - Door Electronics, Driver's Side
4F0959793R
TSG FA
Coding long
Dealer number 31414
8K0959793D
H11
0250

0Event(s) detected

46 - Comfort System Central Control Module w/anti-theft w.
4L0910289F
Komfortgeraet H08
Coding 3438621
Dealer number 31414
4L0907289C
60
0060

1K0951605C
LIN BACKUP HORN H03
Dealer number 00000

1301

0Event(s) detected

47 - Digital Sound Package (Bang & Olufsen)
4L0910466A
BO_Q7 H10
Coding 122
Dealer number 31414
4L0035466

S00
0820

4L0910465A
BO_Q7_SLAVE H41
Dealer number 31414
4L0035465
000
0780

0Event(s) detected

4F - Vehicle Electrical System 2
4F0910280
ILM Beifahrer H13
Coding 12001
Dealer number 31414
4F0907280D
0100

0Event(s) detected

52 - Door Electronics, Passenger's Side
4F0959792R
TSG BF
Coding long
Dealer number 31414
8K0959792D
H11
0250

0Event(s) detected

55 - Dynamic Headlight Range Control w/o AFS
8P0907357H
Dynamische LWR H02
Coding 8
Dealer number 31414

000
0010

0Event(s) detected

56 - Radio (included in -J523-)
4E0910541T
TUNER EU/US/RDW H42
Coding 2
Dealer number 31414
4E0035542
000
0630

0Event(s) detected

62 - Door Electronics, left rear
4F0959795M
TSG HL
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

65 - Tire Pressure Monitoring (TPM) Low-Line
4F0910273B
Reifendruck 3 H05
Coding 62424
Dealer number 31414
4F0907273A
050
0100

0Event(s) detected

67 - Voice Control
4E0910754Q
SDS 3501 US H46
Dealer number 12336
4E0035753A
000
0630

0Event(s) detected

6C - Rear View Camera System
4L0910441B
J772__Rearview
Coding 1021001
Dealer number 31414
4L0907441B
H03
0030

0Event(s) detected

6D - Rear Lid Electronics
4L0910945
ValeoHeckdeckel H28
Dealer number 98765
4L0827851C
H28
0290

4L0910946
ValeoHeckdeckel H28
Dealer number 98765
4L0827852C

H28
0290

0Event(s) detected

72 - Door Electronics, right rear
4F0959795M
TSG HR
Coding long
Dealer number 31414
8K0959795B
H10
0251

0Event(s) detected

76 - Acoustic Parking Aid, 8 channel
4F0910283K
Parkhilfe 8-Kan H12
Coding 221346
Dealer number 31414
4F0919283K
H12
0100

0Event(s) detected

77 - Telephone (cellular phone base plate)
4F0910336H
Handyvorb2 H20
Coding 10900
Dealer number 31414
4E0862335
000
1130

0Event(s) detected

Event memory 2:

Steps completed:

No.	Mask / Test Name / Function / Test step	Result
1.	DiagnosisStart	21.07.201011:05
2.	Vehicle Identification	
3.	Vehicle System Test	
4.	Vehicle system test completed 1	
5.	Function Test	
6.	Function Test 1: Start_Protokoll_laufleistung_21	OK
7.	Function Test	
8.	Function Test 2: GWK_Start_Hinweis_21	OK
9.	Function Test	
10.	Function Test 3: SYS___4L_____1_0506_21_Hauptprogramm_Meldepflicht	OK
11.	Function Test	
12.	Function Test 4: Unberechtigte_FSP_4L_2_1007_21	OK
13.	Function Test	
14.	Function Test 5: J623____23_____1_1208_21_NMK	OK
15.	Function Test	
16.	Function Test 6: J285____90_____1_1008_21_historiendaten_lesen	OK
17.	Fault Memory Contents	
18.	Test Plan 1	
19.	Test Plan 2	
20.	Function Test 7: J179_4L_28_CCMA_1_0908_21 J179-Automatic Glow Time Control Module	OK
21.	Test Plan 3	
22.	Vehicle system test completed 2	
23.	Function Test	
24.	Function Test 8: Katalysatordiagnose_USA	X
25.	Function Test	
26.	Function Test 9: J533_B8_27_____1_0408_21_historiendaten	OK
27.	Function Test	
28.	Function Test 10: IUMPR_____2_1003_21_Datenlesen	X
29.	Function Test	
30.	Function Test 11: Diagnoseprotokoll_senden_21	OK

Test Plan1:

System Test Plan
Mot6000 - (P06BC) Glow plug cylinder 4 implausible signal
- J179-Automatic Glow Time Control Module
Abe6000 - (00384) Optic data bus - Open Circuit
- J533 - Ring break diagnosis (RG.90)

Test Plan2:

System Test Plan
Mot6000 - (P06BC) Glow plug cylinder 4 implausible signal
? J179-Automatic Glow Time Control Module

Test Plan3:

System Test Plan
Mot6000 - (P06BC) Glow plug cylinder 4 implausible signal
OK J179-Automatic Glow Time Control Module
Abe6000 - (00384) Optic data bus - Open Circuit
- J533 - Ring break diagnosis (RG.90)

Function Test1: Start_Protokoll_laufleistung_21

Test Step / Action	Outputs	Result
Test Step : Determine mileage from SGBD		
Diagnosis		OK
		OKAY
		SCH6000
Diagnosis		OK
		11840
		OKAY
Diagnosis		OK
		OKAY
Test Step : Supplement protocol distance		

```
Function Test                                                                 OK
```

Function Test2: GWK_Start_Hinweis_21

```
Test Step / Action      Outputs                                            Result
Test Step : Note for warranty claim
   Signal               YZ NOTE:
                        When ending Guided Fault Finding the diagnostic protocol
                        is automatically transferred online.
                        The diagnostic protocol must includ the correct work order
                        number and Vehicle Identification Number (VIN). If no
                        diagnostic protocol is available, warranty claims will be
                        rejected.
                        The diagnostic connector may only be disconnected
                        prematurely when instructed to do so.
   Input                - Enter correct work order number:
Test Step : Note for test requirements
   Signal               General test requirements:
                        l Battery voltage OK.
                        l Fuses OK. A Wiring diagram
                        l Ground (GND) connections tight and without corrosion or
                        oxidation (loosen and clean GND connections). A Wiring
                        diagram
                        l Electrical wiring as well as test instrument leads should
                        only be connected or disconnected with the ignition
                        switched off.
Test Step : Notes on Start/Stop System
   Signal               Safety precautions for vehicles with
                        start/stop system.
                        ST WARNING!
                        Risk of personal injury due to automatic engine start on
                        vehicles with start/stop system.
                        J On vehicles with activated start/stop system
                        (recognizable by a message in the instrument cluster) the
                        engine may start automatically, as required.
                        J When working on the vehicle, make sure the start/stop
                        system is deactivated (switch ignition OFF, if required
                        switch ignition ON again).
   Beginning sub-        sys__________1_0607_21_fahrgestellnummer_lesen
function:
Test Step : Reading Vehicle Identification Number (VIN)
   Diagnosis                                                                  OK
                                                                               1
                                                                            OKAY
                                                                         MOT6000
   Diagnosis                                                                  OK
                                                           WA1CM74L39D[redacted]
                                                                            OKAY
   End sub-function:     sys__________1_0607_21_fahrgestellnummer_lesen       OK
Function Test                                                                 OK
```

Function Test3: SYS_____4L_________1_0506_21_Hauptprogramm_Meldepflicht

```
Test Step / Action      Outputs                                            Result
   Beginning sub-        sys__________1_0506_21_MPF2006_1
function:
Test Step : Importer
   End sub-function:     sys__________1_0506_21_MPF2006_1                     OK
   Beginning sub-        sys__________1_1206_21_MPF2006_6
function:
Test Step : Importer
   End sub-function:     sys__________1_1206_21_MPF2006_6                     OK
   Beginning sub-        sys__________1_0407_21_MPF2007_4
function:
Test Step : Importer
   End sub-function:     sys__________1_0407_21_MPF2007_4                     OK
   Beginning sub-        sys__________1_0408_21_MPF2008_3
function:
Test Step : Importer
   End sub-function:     sys__________1_0408_21_MPF2008_3                     OK
   Beginning sub-        sys__________1_0309_21_MPF2009_1
function:
Test Step : Importer
Test Step : Dealer number
Test Step : Assigning DTC memory
   End sub-function:     sys__________1_0309_21_MPF2009_1                     OK
   Beginning sub-        sys__________1_1009_21_MPF2009_7
function:
Test Step : Importer
   End sub-function:     sys__________1_1009_21_MPF2009_7                     OK
Function Test                                                                 OK
```

Function Test4: Unberechtigte_FSP_4L_2_1007_21

```
Test Step / Action      Outputs                                            Result
   Beginning sub-        unberechtigte_fsp_4l_1_0108_21
function:
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
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Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Checking DTC memory
Test Step : Output unauthorized malfunction
End sub-function: unberechtigte_fsp_4l_1_0108_21 OK
Function Test **OK**

Function Test5: J623____23_____1_1208_21_NMK

Test Step / Action	Outputs	Result
Test Step : Selection		
Test Step : V6 TDI		
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		23
		24
		24
Diagnosis		OK
Diagnosis		OK
		11111111
		00111111
Diagnosis		OK
Diagnosis		OK
		-36
		-18
		-23
Diagnosis		OK
Diagnosis		OK
		-34
		-14
		-23
Diagnosis		OK
Diagnosis		OK
		-36
		-9
		-17
Diagnosis		OK
Diagnosis		OK
		-20
		-10
		-13
Diagnosis		OK
Diagnosis		OK
		-16
		-4
		-12
Diagnosis		OK
Diagnosis		OK
		-28
		-10
		-15
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		BPG-810 09.11.08
		31H01--- 1479.0358
Diagnosis		OK
Diagnosis		OK
		WA1CM74L39D[redacted]
		<>
Diagnosis		OK
Diagnosis		OK
		0020078047502
		24.11.09 <> <> <> <>
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		129.80
		-277.30
		88.50
Diagnosis		OK
Test Step : V6 TDI BIN5 KWP		
Diagnosis		OK
		123.90
		165.20
		106.20
		88.50
Diagnosis		OK
Diagnosis		OK
		0
		00000110

		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		00000000
		2.68
Diagnosis		OK
Diagnosis		OK
		375
		373
		377
		414
Diagnosis		OK
Diagnosis		OK
		00000101
		01010011
		00011010
		00000000
Diagnosis		OK
Diagnosis		OK
		1.02
		1.03
		1.01
		1.00
Diagnosis		OK
Diagnosis		OK
		1.00
		1.01
		0
		0
Diagnosis		OK
Diagnosis		OK
		0
		0
		0
		0
Diagnosis		OK
Diagnosis		OK
		85.50
Diagnosis		OK
Signal	- If possible, let engine run at idle.	
Diagnosis		OK
		730
		11.00
		232.20
		83.70
Diagnosis		OK
Diagnosis		OK
		-0.05
		-0.28
		0.00
		0
Diagnosis		OK
Diagnosis		OK
		0.09
		0.33
		-0.19
		0
Diagnosis		OK
Diagnosis		OK
		730
		89
		1.55
		0
Diagnosis		OK
Signal	- Turn engine off. - Switch ignition on.	
Function Test		**OK**

Function Test6: J285____90_____1_1008_21_historiendaten_lesen

Test Step / Action	Outputs	Result
Test Step : Extended Service Interval - reading history data		
Diagnosis		OK

4FF000320FF000124FF001910FF025A78FF025A7CFF00191FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Diagnosis		OK

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

Function Test		**OK**

Function Test7: J179_4L_28_CCMA_1_0908_21

Test Step / Action	Outputs	Result
Signal	**Please wait ...** DTC memory in Engine Control Module (ECM) is being checked	
Test Step : NOTES:		
Signal	PQ***CAUTION !*** *- Wait 60 seconds after every output DTM of the Automatic Glow Time Control Module.* *- The ignition remains on.* *- If the waiting time is not observed, and the ignition is switched off too soon and then switched back on, the glow plugs may be damaged, as the engine control module attempts, depending on the coolant temperature, to activate the glow plugs again.*	
Test Step : Checking fuses		
Question	- Check fuse **S7** YZ***NOTE:*** *The fuse must be checked after every output diagnostic test of the Glow plug control module !* **Is the fuse OK?**	Instruction interrupted
Question	- Check fuse **S7**	Yes

	YZ*NOTE:* *The fuse must be checked after every output diagnostic test of the Glow plug control module !* **Is the fuse OK?**	
Question	- Check fuse **S2**	Yes
	YZ*NOTE:* *The fuse must be checked after every output diagnostic test of the Glow plug control module !* **Is the fuse OK?**	
Beginning sub-function:	SYS____23_____1_1006_21_SG_Module	
Signal	**Please wait ...** Data is being transmitted	
Test Step : .		
Diagnosis		OK OKAY
Diagnosis		OK
Test Step : .		
Test Step : Testing voltage supply		
Diagnosis		OK 11.93 OKAY
Diagnosis		OK
End sub-function:	SYS____23_____1_1006_21_SG_Module	OK
Test Step : Evaluate DTC memory		
Beginning sub-function:	Q___4L_28_CCMA_1_0908_21	
Test Step : NOTES:		
Signal	PQ*CAUTION!* *- Do not check the glow plugs for function using a 12V voltage source (e.g. starter battery). This will damage the glow plugs.* *- Wait 60 seconds after every output DTM of the Automatic Glow Time Control Module.* *- The ignition remains on.* *If the waiting time is not observed, and the ignition is switched off too soon and then switched back on, the glow plugs may be damaged, as the engine control module attempts, depending on the coolant temperature, to activate the glow plugs again.*	
Test Step : Checking Ground (GND) connection		
Test Step : Glow plugs test procedure		
Question	**Components to be checked:** **Glow Plug 4 -Q13-** - Check whether the glow plugs are properly installed. - Check connectors on glow plugs for: loose contact, corroded pin, wiring or wire strands torn out of connector. - Check that the connectors are correctly attached and their locks are OK. **Is/are the harness connector(s) OK?**	Yes
Question	**Components to be checked:** **Glow Plug 4 -Q13-** - If DTC memory entries are stored relating to <Glow plugs incorrect>, check that the correct glow plugs are installed using the spare parts catalog. **Are the correct glow plugs installed?**	Yes
Signal	**Components to be checked:** **Glow Plug 4 -Q13-** - For further test procedure see Function description button.	
End sub-function:	Q___4L_28_CCMA_1_0908_21	OK
Test Step : Glow plug test		
Question	- Check whether the Glow plug control module is correctly inserted in the relay carrier. **Was the Glow plug control module correctly inserted?** **No** –> Test procedure will be ended because this was the cause of the malfunction.	Yes
Question	- Pull Glow plug control module from the relay carrier. - Check the pins on the Glow plug control module and in the relay carrier for:I Bent, pushed-in pins I Loose contact I Contact corrosion, water incursion. **Are the pins OK?**	Yes
Test Step : Evaluate DTC memory		
Test Step : .		
Question	**Does one of the malfunction causes mentioned so far apply, or did you find the malfunction?** **Yes** --> Components must first be repaired, test procedure is ended. **No** –> Output DTM will be performed While performing the DTM, a check is made whether additional DTC memory entries have occurred.	No
Test Step : Output Diagnostic Test Mode (DTM)		
Signal	**Check the following requirements:** I Glow plug control module is now properly inserted in the relay carrier I All glow plugs installed I All connector attached, e.g. on all glow plugs, engine control module, etc. YZ*NOTE:* *During the following output diagnostic test a check is made for new DTC memory entries relating to the Glow Time Control Module.*	
Test Step : Erasing DTC memory		
Question	- Switch ignition on. **Should the DTC memory of the engine control module be erased?** **No** –> test procedure will be canceled	Yes
Beginning sub-function:	SYS____23_____1_1006_21_SG_Module	
Signal	**Please wait ...** Data is being transmitted	
Test Step : .		
Diagnosis		Instruction interrupted

Diagnosis — Instruction interrupted
Signal — - Switch ignition on.
Signal — **Please wait ...**
Data is being transmitted
Diagnosis — OK
OKAY
Diagnosis — OK
Test Step : .
Test Step : Erasing DTC memory
Diagnosis — OK
OKAY
End sub-function: SYS____23_____1_1006_21_SG_Module — OK
Beginning sub-function: SYS____23_____1_1106_21_SelektStellglieddiag
Signal — **Please wait ...**
Data is being transmitted
Test Step : .
Test Step : .
Test Step : .
Test Step : .
Test Step : .
Test Step : V6 EDC17
Test Step : .
Test Step : .
Test Step : Testing voltage supply
Diagnosis — OK
11.32
OKAY
Diagnosis — OK
Question — **Voltage supply: 11.3 V** — Yes
Specified value: > 11.5 V
Inadequate vehicle voltage may result in false diagnostic results in this test procedure.
- Connect a battery charger.
Repeat the voltage measurement?
No --> Cancel test procedure
Test Step : Testing voltage supply
Diagnosis — OK
13.60
OKAY
Diagnosis — OK
Test Step : .
Test Step : Automatic Glow Time Control Module -J179-
Diagnosis — Instruction interrupted
Diagnosis — OK
OKAY
Diagnosis — OK
OKAY
SGT_LAEUFT
Diagnosis — OK
OKAY
SGT_LAEUFT
Diagnosis — OK
OKAY
4
SGT_LAEUFT
Diagnosis — OK
OKAY
1
Diagnosis — OK
37
Diagnosis — OK
0.00
%
Diagnosis — OK
0
Signal — **13.68 V**
0.00 %
OFF
B **Please wait...**
The actuator is activated for approximately 20 seconds.
Signal — **36**
Diagnosis — OK
Signal — PQ***CAUTION !***
- Wait 60 seconds after every output DTM of the Automatic Glow Time Control Module.
- The ignition remains on.
- If the waiting time is not observed, and the ignition is switched off too soon and then switched back on, the glow plugs may be damaged, as the engine control module attempts, depending on the coolant temperature, to activate the glow plugs again.
End sub-function: SYS____23_____1_1106_21_SelektStellglieddiag — OK
Test Step : .
Beginning sub-function: SYS____23_____1_1006_21_SG_Module
Signal — **Please wait ...**
Data is being transmitted
Test Step : .
Diagnosis — Instruction interrupted
Diagnosis — OK
OKAY
Diagnosis — OK
Test Step : .
Test Step : DTC type detection
Test Step : Checking DTC memory
Diagnosis — OK
OKAY
0
Test Step : Checking DTC memory
Signal — ---
0

--

Signal **Please wait ...**
Data is being transmitted
End sub-function: SYS____23_____1_1006_21_SG_Module OK
Test Step : Evaluate DTC memory
Test Step : Checking fuses
Question - Check fuse **S7** Yes
YZ ***NOTE:***
The fuse must be checked after every output diagnostic test of the Glow plug control module !
Is the fuse OK?
Question - Check fuse **S2** Yes
YZ ***NOTE:***
The fuse must be checked after every output diagnostic test of the Glow plug control module !
Is the fuse OK?
Beginning sub-function: SYS____23_____1_1006_21_SG_Module
Signal **Please wait ...**
Data is being transmitted
Test Step : .
Diagnosis OK
OKAY
Diagnosis OK
Test Step : .
Test Step : Testing voltage supply
Diagnosis OK
12.08
OKAY
Diagnosis OK
End sub-function: SYS____23_____1_1006_21_SG_Module OK
Test Step : Evaluate DTC memory
Test Step : .
Signal No DTC memory entry was stored during the diagnostic test mode of the Glow plug control module.
The Glow plug control module and the connected glow plugs are OK.
Signal YZ ***NOTE:***
After the function test has been completed, do not forget to reverse all steps that were necessary for the function test (for example: disconnected harness connectors, pulled out fuses etc.) and therefore re-establishing the vehicles original condition.

Function Test **OK**

Function Test8: Katalysatordiagnose_USA

Test Step / Action	Outputs	Result
Test Step : Control module identification		
Signal	Data to generate the diagnosis are being read! - Please wait... B	
Diagnosis		OK OKAY MOT6000
Diagnosis		Instruction interrupted
Beginning sub-function:	sys01__24_____1_0706_21_Katalysatordiagnose_USA	
Test Step : Service measuring values		
Test Step : Measuring values TE		
Test Step : Master: Read measuring value block		
Diagnosis		OK 0 0 0 0
Diagnosis		OK
Test Step : Slave		
Test Step : Evaluation		
Test Step : Evaluation		
Test Step : Supplement protocol master		
Test Step : Supplement protocol slave		
End sub-function:	sys01__24_____1_0706_21_Katalysatordiagnose_USA	X
Function Test		**X**

Function Test9: J533_B8_27_____1_0408_21_historiendaten

Test Step / Action	Outputs	Result
Beginning sub-function:	j533_8k_90_____2_0906_21_histdaten_auslesen	
Test Step : Model		
Test Step : Reading history data		
Signal	**Please wait!** **...Data is being read**	
Diagnosis		OK 2010-07-21-07:48*15.8*01*03567*** 2010-07-19-15:19*15.2*01** 2010-07-18-15:19*24.0*01** 2010-07-17-15:19*24.0*01** 2010-07-16-15:19*24.0*01** 2010-07-15-15:19*24.0*01** 2010-07-14-15:19*24.0*01** 2010-07-21-07:48*00.0*01*00304*** 2010-06-09-09:19*00.2*01** 2010-03-07-22:09*01.7*01** 2009-04-30-

```
23:59*03.7*01**
2009-04-29-
23:59*24.0*01**
2009-04-28-
23:59*24.0*01**
2009-04-27-
23:59*24.0*01**
2009-02-09-
14:32*00.0*01*00000***
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
2000-01-01-
00:00*00.0*00**
Diagnosis                                  OK
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-
0*0*00*00000**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
2000-01-01-
00:00*0000*000*+00.00*0
-0-0-0-0-0*0*00**
Diagnosis                                  OK
2009-02-09-
19:05*5*0*021*003*-
10.24*0-0-0-0-0-
0*0*0*00.0*00.0**
2009-02-09-
19:05*1*0*021*003*-
10.36*0-0-0-0-0-
0*0*0*00.0*00.0**
2009-02-09-
17:45*7*0*017*000*-
06.41*0-0-0-0-0-
0*0*0*03.3*03.6**
2009-02-09-
17:44*5*0*017*000*-
07.46*0-0-0-0-0-
0*0*0*03.3*03.6**
2009-02-09-
17:44*1*0*017*000*-
07.64*0-0-0-0-0-
0*0*0*03.3*03.6**
2009-02-09-
17:11*7*0*018*000*-
06.49*0-0-0-0-0-
0*0*0*03.3*03.6**
2009-02-09-
17:10*5*0*018*000*-
07.56*0-0-0-0-0-
0*0*0*03.3*03.6**
2009-02-09-
15:02*1*0*022*004*-
21.32*0-0-0-0-0-
0*0*0*03.3*03.6**
2009-02-09-
14:17*7*0*018*000*-
07.22*0-0-0-0-0-
0*0*0*03.1*03.3**
2009-02-09-
14:16*5*0*019*000*-
15.14*0-0-0-0-0-
0*0*0*03.1*03.3**
2009-02-09-
14:15*1*0*019*000*-
26.36*0-0-0-0-0-
0*0*0*03.1*03.3**
2009-02-09-
14:14*7*0*019*000*-
22.45*0-0-0-0-0-
0*0*0*03.0*03.3**
2009-02-09-
13:45*2*0*026*002*-
21.37*0-0-0-0-0-
0*0*0*02.6*02.8**
2009-02-09-
13:42*5*0*027*003*-
19.41*0-0-0-0-0-
```

```
                                                                                              0*0*0*02.5*02.7**
                                                                                                    2009-02-09-
                                                                                           13:33*1*0*029*006*-
                                                                                                19.38*0-0-0-0-0-
                                                                                              0*0*0*02.4*02.6**
Diagnosis                                                                                                     OK
                                                                                        2008-12-03-
                                                                             10:06*01*8K0915105F
                                                                                    *MLA*18BPUL7
                                                                             *09946*02663*0000*0000*0000**
                                                                                        2000-01-01-
                                                                                 00:00*00*--------
                                                                                      *XXX*-------
                                                                             *09994*00007*0000*0000*0000**
                                                                                        2000-01-01-
                                                                                 00:00*00*--------
                                                                                      *XXX*-------
                                                                             *00000*00000*0000*0000*0000**
                                                                                        2000-01-01-
                                                                                 00:00*00*--------
                                                                                      *XXX*-------
                                                                             *00000*00000*0000*0000*0000**
                                                                                        2000-01-01-
                                                                                 00:00*00*--------
                                                                                      *XXX*-------
                                                                             *00000*00000*0000*0000*0000**
Diagnosis                                                                                                     OK
                                                    2000-01-01-
                                         00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
                                              000000*0-0-0-0-0-
                                         0*0*00.0*00.0*000.0*00*00*00**
                                                    2000-01-01-
                                         00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
                                              000000*0-0-0-0-0-
                                         0*0*00.0*00.0*000.0*00*00*00**
                                                    2000-01-01-
                                         00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
                                              000000*0-0-0-0-0-
                                         0*0*00.0*00.0*000.0*00*00*00**
                                                    2000-01-01-
                                         00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
                                              000000*0-0-0-0-0-
                                         0*0*00.0*00.0*000.0*00*00*00**
                                                    2000-01-01-
                                         00:00*+00.00*+00.00*+00.00*00.00*000*00*+00.0*00000*00000*
                                              000000*0-0-0-0-0-
                                         0*0*00.0*00.0*000.0*00*00*00**
Diagnosis                                                                                                     OK
                                                                                           2010-07-21-
                                                                                09:29*051*+30*+000.1*00.00**
                                                                                           2010-07-21-
                                                                                08:55*058*+30*+020.4*00.38**
                                                                                           2010-07-20-
                                                                                14:47*081*+28*+000.4*00.11**
                                                                                           2010-07-20-
                                                                                14:42*081*+28*+001.0*00.07**
                                                                                           2010-07-20-
                                                                                14:42*073*+27*+000.1*00.00**
                                                                                           2010-07-20-
                                                                                14:08*081*+27*+001.9*00.53**
                                                                                           2010-07-20-
                                                                                11:44*079*+25*+001.7*00.71**
                                                                                           2010-07-20-
                                                                                10:47*081*+24*+001.0*00.25**
                                                                                           2010-07-20-
                                                                                07:30*086*+22*+001.5*00.51**
                                                                                           2010-07-19-
                                                                                18:33*079*+28*+001.6*00.28**
                                                                                           2010-07-19-
                                                                                17:58*076*+27*+003.8*00.55**
                                                                                           2010-07-19-
                                                                                14:55*066*+26*+004.9*00.36**
                                                                                           2010-07-19-
                                                                                14:47*059*+24*+001.3*00.06**
                                                                                           2010-07-19-
                                                                                14:43*058*+24*+000.7*00.02**
                                                                                           2010-07-19-
                                                                                14:36*060*+24*+000.9*00.06**
                                                                                           2010-07-19-
                                                                                14:31*053*+24*+000.1*00.00**
                                                                                           2010-07-19-
                                                                                14:28*053*+24*+000.7*00.04**
                                                                                           2010-07-19-
                                                                                13:18*055*+24*+000.2*00.00**
                                                                                           2010-07-19-
                                                                                13:16*055*+24*+000.3*00.01**
                                                                                           2010-07-19-
                                                                                10:37*056*+24*+001.1*00.05**
Diagnosis                                                                                                     OK
                                                                                                  2010-07-21-
                                                                                                   09:29*014*-
                                                                                       027.0*003.7*01.4*01.2**
                                                                                                  2010-07-21-
                                                                                                   09:18*051*-
                                                                                       003.2*000.1*00.1*00.1**
                                                                                                  2010-07-20-
                                                                                                   14:53*033*-
                                                                                       025.9*017.9*01.0*00.6**
                                                                                                  2010-07-20-
                                                                                                   14:46*081*-
                                                                                       000.1*000.0*00.0*00.0**
                                                                                                  2010-07-20-
                                                                                                   14:40*072*-
                                                                                       001.0*000.0*00.0*00.0**
                                                                                                  2010-07-20-
                                                                                                   12:27*080*-
                                                                                       001.4*001.6*00.0*00.0**
                                                                                                  2010-07-20-
```

11:03*078*-
000.4*000.6*00.0*00.0**
2010-07-20-
08:00*080*-
000.6*002.7*00.0*00.0**
2010-07-19-
18:50*072*-
001.0*012.6*00.0*00.0**
2010-07-19-
18:31*076*-
000.3*000.0*00.0*00.0**
2010-07-19-
15:17*063*-
000.4*002.6*00.0*00.0**
2010-07-19-
14:51*054*-
001.0*000.0*00.0*00.0**
2010-07-19-
14:45*050*-
000.8*000.0*00.0*00.0**
2010-07-19-
14:40*053*-
000.9*000.0*00.0*00.0**
2010-07-19-
14:32*060*-
000.5*000.0*00.0*00.0**
2010-07-19-
13:18*053*-
000.3*001.1*00.0*00.0**
2010-07-19-
13:17*055*-
000.2*000.0*00.0*00.0**
2010-07-19-
10:40*056*-
000.5*002.5*00.0*00.0**
2010-07-19-
10:35*055*-
000.3*000.0*00.0*00.0**
2010-07-19-
10:27*057*-
001.1*000.1*00.1*00.0**

Diagnosis OK

2009-02-09-
14:45*1*59*00*00*00*2000
-01-01-00:00*01**
2009-02-09-
14:42*1*58*00*00*00*2000
-01-01-00:00*01**
2008-12-06-
02:31*1*57*00*00*00*2000
-01-01-00:00*01**
2008-12-06-
02:27*1*56*00*00*00*2000
-01-01-00:00*01**
2008-12-06-
02:15*1*55*00*00*00*2000
-01-01-00:00*01**

Diagnosis OK

2010-07-12-
07:55*096*095*067*059*02585*12.30*+19*01**
2010-06-28-
07:40*095*097*060*049*02559*12.20*+19*01**
2010-06-14-
07:39*091*085*057*046*02523*12.20*+20*01**
2010-05-27-
15:18*096*097*065*051*02475*12.30*+14*01**
2010-05-06-
11:32*096*099*075*068*02443*12.50*+19*01**
2010-04-22-
07:53*096*100*066*056*02413*12.30*+16*01**
2010-04-07-
15:29*095*100*072*062*02404*12.40*+16*01**
2010-03-22-
09:53*094*100*077*068*02391*12.50*+17*01**
2010-03-03-
11:54*096*100*090*081*02293*12.70*+12*01**
2010-02-20-
00:34*095*095*075*059*02154*12.50*+12*01**
2010-02-03-
13:59*096*097*086*075*02103*12.60*+11*01**
2010-01-16-
17:09*096*099*080*069*02016*12.50*+12*01**

Diagnosis OK

2000-01-01-
00:00*0*000.0*0*000.0*000.0**
2000-01-01-
00:00*0*000.0*0*000.0*000.0**
2000-01-01-
00:00*0*000.0*0*000.0*000.0**
2000-01-01-
00:00*0*000.0*0*000.0*000.0**
2000-01-01-
00:00*0*000.0*0*000.0*000.0**
2000-01-01-
00:00*0*0*0*000.0**
2000-01-01-
00:00*0*0*0*000.0**
2000-01-01-
00:00*0*0*0*000.0**
2000-01-01-
00:00*0*0*0*000.0**
2000-01-01-
00:00*0*0*0*000.0**
2000-01-01-
00:00*0*000.0*000.0**
2000-01-01-
00:00*0*000.0*000.0**
2000-01-01-
00:00*0*000.0*000.0**

```
                                                                      2000-01-01-
                                                              00:00*0*000.0*000.0**
                                                                      2000-01-01-
                                                              00:00*0*000.0*000.0**
   Diagnosis                                                                          OK
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00*00000*00000*00000**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
                    2000-01-01-
            00:00*000*000*000*000*0000*000*00.0*+00.0*000*000*000*000*00**
   Diagnosis                                                                          OK
   Diagnosis                                                                          OK
                                                                     2000-01-01-00:00*0-
                                                                                  0-0-0-
                                                                         0*000.0*00000**
                                                                     2000-01-01-00:00*0-
                                                                         0-0-0-0*000.0**
                                                                     2000-01-01-00:00*0-
                                                                         0-0-0-0*000.0**
                                                                     2000-01-01-00:00*0-
                                                                         0-0-0-0*000.0**
                                                                     2000-01-01-00:00*0-
                                                                         0-0-0-0*000.0**
   Diagnosis                                                     Instruction interrupted
   Diagnosis                                                                          OK
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
                                                              2000-01-01-
                                                     00:00*000*00*00*000*00*00*000*00*00**
   Diagnosis                                                                          OK
                                                                    011846**
                                                         00293*00758*00532*00061*00010**
                                                         01568*00067*00014*00009**
                                                         01285*03298*00177*00000**
                                                         00772*00300*00093*00284**
                                                         00889*00285*00275**
                                                         00000*00000*00000*00000**
                                                         01181*00279*00119*00009**
                                                         00573*00030*00011**
                                                         00000*00000*00000**
                                                         00013*00004*00001**
   Diagnosis                                                                          OK
                                                                                    0024
   Signal            str_mw_beginn
   Signal            Please wait!
                        ...Data is being read
Test Step : Reading measuring values
   Diagnosis                                                                          OK
                                                                                       0
                                                                                       0
                                                                                       0
                                                                                       0
Test Step : Reading measuring values
   Diagnosis                                                                          OK
                                                                                   10.60
                                                                                    0.00
                                                                                    0.13
                                                                                    3.00
                                                                                       V
                                                                                       %
                                                                                       A
                                                                                       s
Test Step : Reading measuring values
   Diagnosis                                                                          OK
                                                                                      OK
                                                                                    n.OK
                                                                                      OK
Test Step : Reading measuring values
   Diagnosis                                                                          OK
                                                                                      OK
                                                                                       3
                                                                                       6
                                                                                       0
Test Step : Reading measuring values
   Diagnosis                                                                          OK
```

	OK
	0
	8
	NO
Test Step : Reading measuring values	
Diagnosis	OK
	11.80
	-17.80
	31
	31
	V
	A
	°C
	°C
Test Step : Reading measuring values	
Diagnosis	OK
	40.00
	70.00
	96.00
	98.00
	%
	%
	%
	%
Test Step : Reading measuring values	
Diagnosis	OK
	4.20
	2.80
	28
	12.00
	mOhm
	mOhm
	Ah
	V
Test Step : Reading measuring values	
Diagnosis	OK
	0.03
	Check END
Test Step : Reading measuring values	
Diagnosis	OK
	136
	540
	540
	9
Test Step : Reading measuring values	
Diagnosis	OK
	01110111 11110011
	00000000 00000000
	540
	540
Test Step : Reading measuring values	
Diagnosis	OK
	0.00
	0.00
	0.00
	0.00
	A
	A
	Nm
	W
Test Step : Reading measuring values	
Diagnosis	OK
	0
	540
	540
	540
Test Step : Reading measuring values	
Diagnosis	OK
	00000000 00000000
	00000000 00000000
	00000000 00000000
Test Step : Reading measuring values	
Diagnosis	OK
	0
	1
	10.00
	155.00
	s
	A
Diagnosis	OK
Test Step : Conversion 490	
Test Step : Conversion 491	
Test Step : Conversion 492	
Test Step : Conversion 493	
Test Step : Conversion 494	
Test Step : Conversion 495	
Test Step : Conversion 496	
Test Step : Conversion 498	
Test Step : Conversion 499	
Test Step : Conversion 49A	
Test Step : Conversion 49B	
Test Step : Adding protocol	
End sub-function: j533_8k_90_____2_0906_21_histdaten_auslesen	X
Test Step : Reading history data	
Function Test	**OK**

Function Test10: IUMPR 2 1003 21 Datenlesen

Test Step / Action	Outputs	Result
Signal	Data is evaluated.	
	Please wait ...	
	B	

Test Step : VARIANT control module 1
Diagnosis
OK
OKAY
MOT6000
Test Step : Determining start requirements
Signal Startbedingungen ermitteln
Signal Data is evaluated.
Please wait ...
B
Diagnosis
OK
OKAY
11840
63
91
408
Diagnosis
OK
Diagnosis
OK
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
0
4984
121
24
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
1
7925
0
24
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
2
5551
17
12
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
3
8187
16
12
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
4
4484
37
12
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
5
9952
9
4
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
6
8194
406
4
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_InGE
7
8197
0
4
Diagnosis
OK
OKAY
Test Step : Reading data
Diagnosis
OK
OKAY
ECU_NichtInGE
8
8852

2
4
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
9
9951
1
4
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
10
5182
13
4
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
11
5183
129
4
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
12
8863
406
4
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
13
5107
139
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
14
5117
110
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
15
5118
180
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
16
5127
215
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
17
5114
250
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
18
5104
235
91
Diagnosis OK

OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
19
9690
131
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
20
9691
31
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
21
9880
406
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
22
9659
123
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
23
9879
407
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
24
9567
55
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
25
9568
79
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
26
9580
79
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
27
9661
18
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
28
10624
144
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK

OKAY
ECU_InGE
29
4807
68
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
30
9949
21
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
31
9950
17
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
32
5171
109
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
33
5172
166
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
34
9658
252
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
35
4817
196
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
36
4279
160
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
37
4794
86
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_NichtInGE
38
4818
97
91
Diagnosis OK
OKAY

Test Step : Reading data
Diagnosis OK
OKAY
ECU_InGE
39

	8675
	152
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	40
	4949
	152
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	41
	4950
	152
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	42
	4951
	152
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	43
	10623
	234
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	44
	10276
	152
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	45
	5242
	385
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	46
	4914
	396
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	47
	5162
	382
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	48
	9698
	140
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	49
	9696
	142
	91

Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	50
	9692
	146
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	51
	5168
	406
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	52
	5174
	203
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	53
	9653
	145
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	54
	5415
	237
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	55
	4926
	408
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	56
	8854
	276
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	57
	10615
	76
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_NichtInGE
	58
	9050
	32
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	
Diagnosis	OK
	OKAY
	ECU_InGE
	59
	9647
	192
	91
Diagnosis	OK
	OKAY
Test Step : Reading data	

Diagnosis		OK
		OKAY
		ECU_NichtInGE
		60
		9954
		8
		91
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_InGE
		61
		9953
		26
		91
Diagnosis		OK
		OKAY
Test Step : Reading data		
Diagnosis		OK
		OKAY
		ECU_NichtInGE
		62
		8735
		311
		91
Diagnosis		OK
		OKAY
Test Step : Reading data		
Test Step : End of reading control module 1		
Diagnosis		OK
Signal	63 data records of 63 were read out.	
Test Step : VARIANT control module 2		
Signal	Additional data is evaluated. Please wait ... B	
Diagnosis		Instruction interrupted
Signal	Communication with the Engine Control Module (ECM) 2could not be established.	
Signal	END OF TEST	
Function Test		**X**

Function Test11: Diagnoseprotokoll_senden_21

Test Step / Action	Outputs	Result
Test Step : GFS Light?		
Beginning sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen_neu	
Test Step : Reading Vehicle Identification Number (VIN)		
Diagnosis		OK
		1
		OKAY
		MOT6000
Diagnosis		OK
		WA1CM74L39D[redacted]
		OKAY
End sub-function:	sys_____1_0607_21_fahrgestellnummer_lesen_neu	OK
Test Step : Reading Transmission Data ?		
Beginning sub-function:	iumpr_____3_0106_21_Datenlesen_Getriebe	
Test Step : Variant		
Diagnosis		OK
		OKAY
		GET6000
Test Step : Reading data MVB (124)		
Signal	Data will be read out from the transmission control module and evaluated. *- Please wait the Vehicle Diagnostic Tester automatically continues ...* B	
Diagnosis		OK
		OKAY
Diagnosis		OK
		0
		OKAY
Diagnosis		OK
Test Step : Reading data MVB (123)		
Diagnosis		OK
		OKAY
Diagnosis		OK
		100.00
		OKAY
Diagnosis		OK
Test Step : Reading data MVB (122)		
Diagnosis		OK
		OKAY
Diagnosis		OK
		100.00
		OKAY
Diagnosis		OK
Test Step : Reading data MVB (121)		
Diagnosis		OK
		ERROR_NRC_RequestOutOfRange:ServiceID:ResponseCode
Diagnosis		OK
End sub-function:	iumpr_____3_0106_21_Datenlesen_Getriebe	OK
Test Step : Additional data		
Test Step : Recording data		
Signal	The diagnostic protocol was sent or stored on the tester.	
Function Test		**OK**

EA11003EN-00778[0]

From: Non-responsive content removed
To:

CC:
Date: 3/3/2008, 2:53:14 PM
Subject: Minutes and attachments for CP4 technical meeting on 27/02/2008 in [redacted]
Attachments: 882211 Protokoll CP4 Fachgespräch am 27 02 08 bei [redacted].pdf
882038PB Audi FG 27-02-2008 Status.pdf
CP4_Audi_080227.pdf
[redacted]_2331_3_Hr.pdf

Gentlemen,

Please find attached the minutes and attachments from the CP4 technical meeting on 27/02/2008.

<<882211 Protokoll CP4 Fachgespräch am 27 02 08 bei [redacted].pdf>>

Overhead attachment:

<<882038PB Audi FG 27-02-2008 Status.pdf>> <<CP4_Audi_080227.pdf>> <<EHP1_2331_3_Hr.pdf>>

Best regards / mit freundlichen Grüßen

[redacted]

Robert Bosch GmbH
Non-responsive content removed
Non-responsive content removed 70049 Stuttgart - GERMANY Non-responsive content removed
Non-responsive content removed

EA11003EN-00834[0]

From: Non-responsive content removed
To:
CC:
Date: 3/17/2011, 6:49:03 PM
Subject: Chatter marks, part two RE: Request for results overheads IAV
Attachments: Überlasttests@Audi_150910.ppt

For info!

From: Non-responsive content removed
Sent: Thursday, March 17, 2011, 6:46 PM
To Non-responsive content removed
Subject: Re: Request for results overheads IAV

Hello Non-responsive content removed
and the chatter marks of the same pumps like in the recent Bosch diagnosis!
The camshaft turns into the picture.

With best wishes

Non-responsive content remove
d

AUDI AG
[redacted]
74148 Neckarsulm
Non-responsive content rem
oved

From: Non-responsive content removed
Sent: Wednesday, October 20, 2010, 8:36 AM
To: Non-responsive content remove
Cc: d
Subject: Re: Request for results overheads IAV

Hello [redacted] here are the IAV results: File from 9/15/2010

Regards, [redacted]

With best wishes

[redacted]

AUDI AG
[redacted]
74148 Neckarsulm
[redacted]
http://www.audi.com

Sitz/Domicile: Ingolstadt
Registergericht/Court of Registry: Local District Court Ingolstadt
HRB Nr./Commercial Register No.: 1
Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Martin Winterkorn
Vorstand/Board of Management: Rupert Stadler (Vorsitzender/Chairman), Ulf Berkenhagen, Michael Dick, Frank Dreves, Peter Schwarzenbauer,
Thomas Sigi, Axel Strotbek

From: [redacted]
Sent: Wednesday, October 20, 2010, 8:25 AM
To: [redacted]
Subject: RE: Request for results overheads IAV

Hello Mr. [redacted]

Here is the requested presentation. The difference to the reduced inlet pressure was not as distinct, but the statistics probably play a role here.

Best regards / mit freundlichen Grüßen

[redacted]

Robert Bosch GmbH
[redacted]
70442 Stuttgart
Germany
www.bosch.com

[redacted]

From: Non-responsive content removed
Sent: Tuesday, October 19, 2010, 4:24 PM
To: Non-responsive content removed
Subject: Re: Request for results overheads IAV

Hello Non-responsive content removed
Do you have images of the AWP2?

We ran the pump with reduced inlet pressure and wanted to see if it had an impact on the deposits:

Here is the pump that ran with 5bar inlet pressure:

CP42S-4,85-REC-MT20

ENT 301 181 KH

BPT 4325

Thanks and regards, Non-responsive content removed

With best wishes

Non-responsive content removed

AUDI AG
Non-responsive content removed
74148 Neckarsulm
Non-responsive content removed

http://www.audi.com

From: Non-responsive content removed
Sent: Thursday, August 05, 2010, 4:11 PM
To: Non-responsive content removed
Cc:
Subject: RE: Request for results overheads IAV

Hello Mr. Non-responsive content removed

Here are overheads that were shown yesterday.

Best regards / mit freundlichen Grüßen

Non-responsive content removed

From: Non-responsive content removed
Sent: Thursday, August 05, 2010, 11:05 AM
To: Non-responsive content removed
Cc:
Subject: Request for results overheads IAV

Hello Mr.
Before you draw up the minutes, could you please send the shown overheads from the analysis of IAV- to me and Non-responsive content removed ?

Thanks and regards, Non-responsive content removed

With best wishes

Non-responsive content removed

AUDI AG

74148 Neckarsulm
Non-responsive content removed

http://www.audi.com

EA11003EN-00841[0]

From: Non-responsive content removed
To:

CC:

Date: 10/13/2010, 5:28:52 PM
Subject: Analysis results "[redacted] pumps"

Hi all,

Bosch presented additional analysis results today of the 5 pumps that were removed from the blocked vehicles in [redacted] Deposits were discovered on all pumps.
These deposits consist of iron hydroxide [Fe (OH)2]. It is created from a reaction between iron and water (Bosch statement).

The remaining fuel from the RP2 from the Q verification run (Simmerl pump) contained gasoline according to the gas chromatography The concentration cannot be determined; the fuel sample will have to provide this.

Furthermore, the 5 pumps that were removed in [redacted] in the delivery state (pump did not rotate) were received by Bosch today. Analysis is underway.

Mr[redacted], how are the engines delivered in [redacted]? Are the containers leak-proof? Please clarify and provide information.

With best wishes

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EA11003EN-00976[0]

From: Non-responsive content removed
To:
CC:

Date: 7/10/2008, 4:54:00 PM
Subject: Re: Information on pump failures in the U.S.
Attachments: EHC2_0209 Non-responsive content removed Audi CP4 FG 21-05-2008 BIN5 Triebwerkschaden.pdf
Bilder_W19_BIN5_DNA2449.pdf
W19 BIN Ausfall Pumpen.msg
WG_ Leistungsverlust AU716 98017 mit Späne in der HDP .msg

Hello Ms. Non-responsive content removed

Please call me back regarding the Bosch statement.
The subject will be discussed tomorrow at the damage meeting.
We have biggish problems in the field and already have 4 failures in teh Q verification in the U.S. (3 x Q7; 1 x Touareg).
I will be in Stuttgart for a technical meeting on this on Tuesday, one of you is welcome to attend.

Failure Q7 USA no. 3 is on its way to Germany; fuel samples as well; see attachment.
Disposition of Touareg failure unknown?

With best wishes

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AUDI AG
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From: Non-responsive content removed
Sent: Thursday, July 10, 2008, 5:23 PM
Non-responsive content removed
Subject: Information on pump failures in the U.S.

Hello Mr.

Please find enclosed a brief summary of the **diagnoses and activities** involved with the pump failures in the U.S.

A) Diagnoses

At the moment, we assume that both cases involve the primary damage "sluggish roller", resulting from a manufacturing fault.

However, we cannot rule out a "sluggish roller" due to water in the fuel.
(Water in fuel significantly increases the friction coefficient between roller and roller support).
Information about the fuel (fuel analysis) and status of water separators would be helpful here.

1) Details; pump 40,000km
<<EHC2_0209[redacted]Audi CP4 FG 21-05-2008 BIN5 Triebwerkschaden.pdf>>
2) Details; pump with 60,000km; **Diagnosis underway (pictures attached)**
<<Bilder_W19_BIN5_DNA2449.pdf>>

Pumps 3 & 4 will be diagnosed ASAP after receipt.

We have involved our R.B. colleagues in the U.S. and provided them with the necessary assembly information, which means once Audi approves, the pumps can be examined for onset drivetrain damage on site.

If no drivetrain damage is diagnosed, the pumps can be re-installed in the engines/vehicles and complete their verification ERs.

At the last technical meeting, Mr.[redacted]indicated that he might have another pump with the same DM as the first two failed pumps.

We would like to diagnose this (investigate for manufacturing variances)

<<W19 BIN Pump failures>>

B) Activities

1) Form an Audi-specific working group with a focus on W19 BIN5; cooperation with drivetrain task force

2) Start an R.B. pump CT analysis for W19 BIN5; the other two pumps are urgently required for failure hypotheses

Best regards / mit freundlichen Grüßen

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Robert Bosch GmbH
Diesel Systems
Non-responsive content removed

Tel. 0049 (0)711-811 22785
Sascha.Ambrock@de.bosch.com

From: [redacted]
To:
CC:
Date: 08.07.2008 14:43:16
Thema: WG: Performance drop AU716 98017 with shavings in the HPP

Dear Mr. [redacted]

attached please find the information about the "clogged" fuel filter. Apparently massive localized contamination is causal !

Regarding the DPF-Regeneration-issue, all vehicles have been inspected for leaks at the air supply None was found.

With best regards

[redacted]

AUDI AG
[redacted]

-----Ursprüngliche Nachricht-----
Von: [redacted]
Gesendet: Dienstag, 8. Juli 2008 15:20
An: [redacted]
Betreff: WG: Performance drop AU716 98017 with shavings in the HPP

With best regards

[redacted]

[redacted]

AUDI AG
[redacted]

Sitz/Domicile: Ingolstadt
Registergericht/Court of Registry: Amtsgericht Ingolstadt
HRB Nr./Commercial Register No.: 1
Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Martin Winterkorn
Vorstand/Board of Management: Rupert Stadler (Vorsitzender/Chairman), Ulf Berkenhagen, Michael Dick, Frank Dreves, Peter Schwarzenbauer, Axel Strotbek, Werner Widuckel

-----Ursprüngliche Nachricht-----
Von: [redacted]
Gesendet: Montag, 7. Juli 2008 14:42
An: [redacted]
Betreff: Performance drop AU716 98017 with shavings in the HPP

Hi All

We've taken a few photos of the fuel filter, the diesel samples and the housing of the filter.
We are a bit speechless due to the discoloration of the sample directly from the filter (dark vial sample in the middle)
Samples from the tank and a filtered sample look OK, in contrast.
The shavings, or whatever it is, are not metallic (magnetic test) and therefore seem to indicate soiling
Something is disintegrating.
You can also clearly see the soiling on the floor of the filter housing interior.
The filter has the same mileage as the HPP

We will send you the complete filter housing, with filter, diesel samples (if they should go to IN[redacted]nd HPP, lines, etc

Crucial question: where should we have the diesel fuel analyzed? USA or IN? [redacted]

With best wishes [redacted]

EA11003EN-01068[0]

From: Non-responsive content removed
To:
CC:

Date: 9/2/2009, 5:15:25 PM
Subject: 3rd HPP failure USA BIn5

Hello Mr.

I'm afraid there's bad news from the U.S.:

After 2 failures in the field (1x Q7, 1x Touareg) the 3rd HPP failure has now occurred in the EC endurance run:

Q7 AU716 90229 (Q7 BIN5 MJ10)

The vehicle comes from the first batch Bin5 MY09 and is already supposed to have an HPP with anti-wear package.
the vehicle was driven in mixed driving conditions, then converted to MY10 and used in the USA for cold tests
and hot tests.

Mileage of vehicle/HPP: 144,075km (last change of fuel filter at 116,842 km, filter water separation at 131,631km)

Further action:
- HPP will be sent to Non-responsive content remove for analysis
- Fuel filter will be sealed and sent to for analysis
- Fuel sample from the tank

Pictures of the MU and type label of the HPP

Based on the HPP data, can you make an initial statement as to the date of manufacture (did the HPP receive all AWP measures already)?

Non-responsive content removed do you have the data for the other two failures?

With best wishes

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AUDI AG
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PO box 1144
74148 Neckarsulm

EA11003EN-01068[1]

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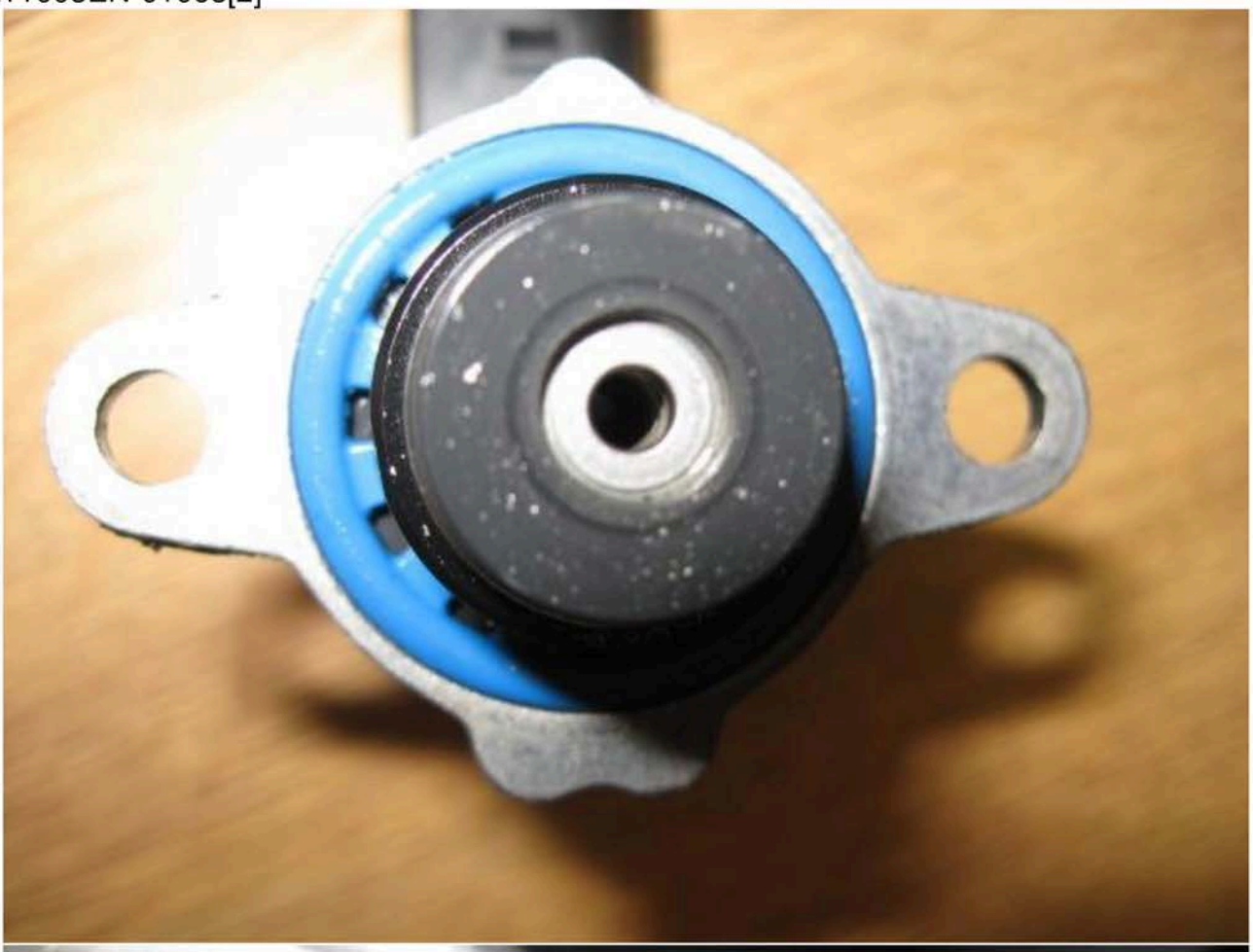
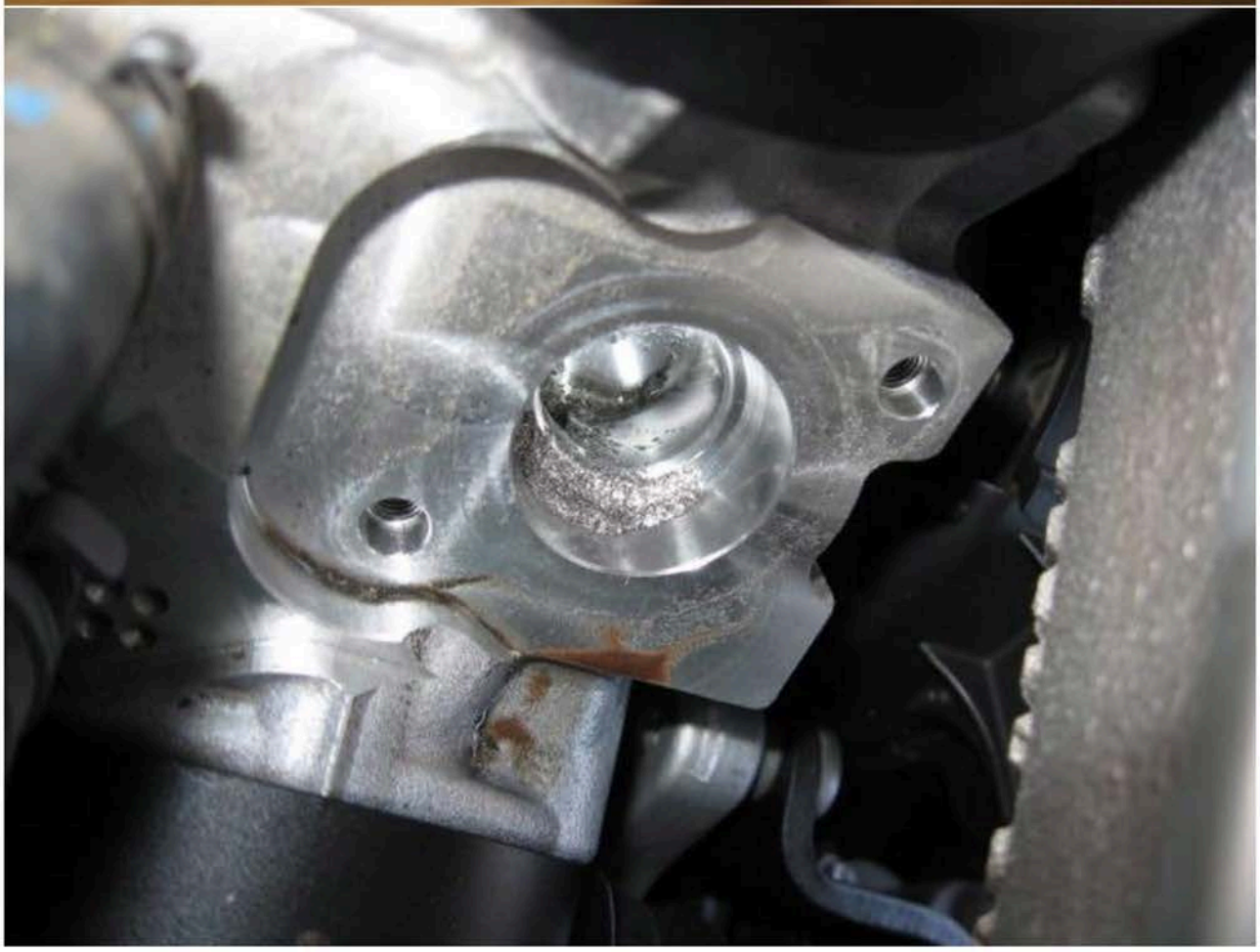
www.audi.com

EA11003EN-01068[2]





EA11003EN-01068[3]

EA11003EN-01068[4]

Dear Sir/Madam,
Please find enclosed the minutes from the technical meeting in [redacted] on 06/09/2008 (without attachments due to size restrictions of the mail systems).

Ms. [redacted]
I will send you the full minutes on Monday and ask that you please distribute it to the AUDI participants.

BOSCH participants can download the full minutes until 06/17/08 at the following link.

\\bosch.com\dfsrb\dfsde\div\ds\svw\SHARE\90_Transfer-keine-Ablage[redacted]886071_01_technik_gespraech_audi_rb_080609.pdf

With best wishes

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Robert Bosch GmbH
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P.O.Box 30 02 20
70442 Stuttgart
Germany
www.bosch.com

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EA11003EN-01161[0]

From: Non-responsive content removed
To:
CC:
Date: 7/30/2008, 7:00:31 AM
Subject: Minutes CP4 technical meeting on 07/02/08
Attachments: 887014_01_cp4fg_080702.pdf

Dear Sir/Madam,

Here are the minutes from the CP4 technical meeting.

<<887014_01_cp4fg_080702.pdf>>

Best regards / mit freundlichen Grüßen

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