

Hello d Non-responsive content rer

I normally don't send internal documents to external companies, especially when I don't know them, and particularly no confidential documents.

I hope that the VW colleagues can send me an e-mail subsequently to confirm that this is OK. Until now, the documents regarding the VW Q campaign have always been sent to Removed

I have attached the following documents on the Q campaign:

* Several illustrations of the pump

* Our failure list with various graphical analyses (see folders)

* The production measures at Bosch (they have largely been integrated in the Q campaign minutes; slide 4 is missing)

* The development measures at Bosch (missing in the Q campaign minutes)

* The handwritten supplements to the Q campaign minutes.

>With best wishes >

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AUDI AG Non-responsive content removed

Sitz/Domicile: Ingolstadt Registergericht/Court of Registry: Local District Court Ingolstadt

EA11003EN-01445[1]

ENTIRE PAGE CONFIDENTIAL

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>From: Non-responsive content removed
>Sent: Friday, October 24, 2008 9:41 AM
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>Subject: Q campaign for 10/27/2008 >Importance: High
>
>Gentlemen,
I need your presentation documents from the briefing with for the Q campaign on 10/27/2008.
 Please send me the presentation documents by 1 p.m. today. If you are unable to send me the documents, please let me know. >
<pre>> < File: Agenda_q_offensive_diesel_2008_10-27.pdf >> < File: Agenda_pl_powertrain_2008_10-27.pdf >> ></pre>
>
>Thanks in advance.
>Best regards / mit freundlichen Grüßen
>
Ion-responsive content removed
>IAV GmbH Gifhorn
>On behalf of:
>
>Volkswagen AG
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>VOLKSWAGEN AG
>Sitz/Domicile: Wolfsburg
>Registergericht/Court of Registry: Amtsgericht Braunschweig/Local District Court Braunschweig >HRB Nr./. Commercial Register No.: 100484

>Vorsitzender des Aufsichtsrats/Chairman of the Supervisory Board: Ferdinand Piëch

EA11003EN-01445[2]

>Vorstand/Board of Management: Martin Winterkorn (Vorsitzender/Chairman), Francisco J. Garcia Sanz, Jochem Heizmann, Horst Neumann, Hans Dieter Pötsch

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VOLK	SWAG		Agenda Diesel engine Q campaign				
Non-respor on: 10/	nsive conte /27/200		Location ^{Non-responsive content removed}	08:30 - 10:05	AM		
8. 9:20 AM 9:30 AM	2374	Diese	el high pressure pump	EA896 3.0I 17 6kW	Non-re nt remo	sponsive controved	
5.30 AW		Statu: Custo Engin Repai No pr as up 	em number: 2514165 s: 0 running time: 3 weeks mer complaint: essure in fuel rail, metallic shavings in fuel system Introduction coming point and item for editorial meeting thas requested AUDI to report on this in the Diesel quality aign on 09/08/08 The 2.01 CR engines could potentially be ed by this issue. esentation of current status and next e are currently corresponding PCCs in four markets. Appropriate ures have been initiated to correct known failure patterns. onal optimizations to be introduced at suppliers and are expect- be effective. examinations & fuel particularities tter timation: unlikely; however, 1 pump found with visible corrosion kction: Reproduction attempt with splash water; result: no drive- rain damage, slight traces of tarnishing in housing kction: WCF attempt with 1% water/salt solution & subsequent sontinued operation with EN590 Result: Pitting on the roller -> in case of continue run, likely trivetrain damage el form tt: Use of ethanol fuels in previously exclusively for bus- th oil-lubricated drivetrain pumps kction: Obtain fuel samples from failure map D: 10/24/08 It: TBD mples from various filling stations / brands analyzed, nothing ular of note; some samples were investigated in more detail. kction: Analysis of fuel from failed pumps. D: ongoing by Audi, RB It: No deposits found to date! el form ation: probably in combination with other influencing factors kction: Analysis of fuel deposits It: No deposits found to date! el form ation: probably in combination with other influencing factors kction: Analysis of fuel deposits It: No deposits found to date! el form ation: probably in combination with other influencing factors kction: Analysis of fuel deposits It: No deposits found to date! el form ation: probably in combination with other influencing factors kction: Research particularities of fuel in D: 10/20/08 tt: Only one Conoco refinery (jet); likely use of biodiesel from	I: 9/1/2008 A: 9/1/2008 I: 9/1/2008			
		Analy 3.2) A ure af 3.3) A (priori Resul	al fats. sis of leftover fuel in the pump, D: WK 45 action: Endurance run with non-OK Roller & GDK650 result: Fail- fter 35 hours with final turned tappet action: additional endurance runs with production abnormalities ity A, see endurance run overview) It: 2 pieces WK 46 in fuel				
second solutions			Page 8			10/22/2008	

EA11003EN-01446[1]

VOLKSWAG	EN Agenda Diesel engine Q campaign		
Non-responsive cor on: 10/27/2008		08:30 - 10:05	18 -
	Estimation: unlikely; however, air was found in the pump intake for a leased 4.1) Action: Replication test with high air proportion Result: no power train damage, but high degree of foam formation 4.2) Action: Research with Audi series electric fuel pump & filter - Result: Inli EFP can take in air via the filter Recommendation: Verify LPC layout design with borderline components. R: 4.3) Action: Endurance run with defined air entry (priority B, see endurance in overview) 5) Belt tension too low (not OK) Estimation: unlikely; however, in two US Q7s that experienced failure incider W19 tension pulleys were found instead of W24 Additional analyses are ong the results are still to be determined. Test: EUS engine with W19 and W24 tension pulley measured + 100 hour re not. 1. Assessment Identified no peculiarities; pump disassembled, Report V 45 provided an illustration of affected fuel pumps; this is to be forwarded to that there is no single cause for the defective fuel pumps, but the rather, several unfortunate factors are coinciding. => Forward the presented illustration to Mr => Examination of fuel pumps for 4-cylinder engines => Presentation of fue urmenty open analysis results and presentation of current status and how to proceed => Examination of fuel pumps for 4-cylinder engines => Failure hypothesis: Torivetrain damage due to combination of stiff roller (in this instance, fusing of the rollers) in combination with country-specific peculiarities (in this instance fuel) "through a replication test Procedure: CP4.2 W19 BINS with fusing on the rollers (rejects from straight-edge test; followed by friction coefficient test OK) set up & operated with poor-lubricity fi GDK 650 (HFRR 650 µm) Result Drivetrain damage after 35 hours of operation Not The drivetrain task force executed several similar tests with ENS90, although only a single case of drivetrain damage occurred. Conclusion: Result confirms the failure hypothesis. Pumps manufactured prior to the intra ion of the straightedge test (04/072008) can-in combin	ne Audi un hts, oing; so wk hat, hat, t: 9/8/2008 A: 9/8/2008 A: 9/8/2008 A: 9/8/2008 A: 9/8/2008 bistore bistore t: 9/29/2008 t: 9/29/2008 t: 9/29/2008 ce of	Ion-responsive contenemoved
	Page 9		10/22/2008

EA11003EN-01446[2]

VOLKSWAGEN	Agenda Diesel engine Q Campaign				
n-responsive content removed on: 10/27/2008	Location Non-responsive content rem	08:30 - 10:05			
2) Avoidance - New wash/ - Full change 3) Avoidance - Peeling par coefficient m The following - Optimizatio - Avoiding C Schedule of Examination Striking featu Feasibility ex C coating V Analysis of it FIP section Change of R surface, bett VVK 48 Bosch slide The analyse 14 of the 4-c First filling: Weaknesses start times). PDM: The instruction ment(manda	activities C particles carryover to roller support of one batch of RS (480) before press-in process ures, flaking, peculiarities under microscope - WK 40 done kamination "brushing" the RS surface after VK 44 dentified C layer bulge. Carry out a WK 43 S pick-up tool when pressing in tappet-body: reduced support er coverage. Feasibility study of elimination of coating on RS surface	I: 9/29/2008 A: 9/29/2008 A: 9/29/2008	Non-res emoved	sponsive c	onten

EA11003EN-01-449[0]

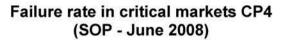
EA11003EN-01449[0]				10																<u> </u>						
Keyword - Failure location Failure cou	intry Veh. no.	Part no. Audi/VW	RB no. QTS-	/ AV3 no. IQIS no.	QMM3 Pump in FeP		ampling Veh. Q-AL plant	Hot Cold test		on-responsive	content r	removed	R4	V6 V6 V6 2.71 3.01 B		P ML1	ML pump ML2 ML3	ML4 DM	DM Re Veh. Date	g. Failurei aceptano	Rep. M Date	ileage Rolle	Right roller t 2 pistons	Additional information Comment / complaint	TS Fuel Cat. sample	Result of findings / comment
Non-responsive co)	03L130 755	507 AV3 507 AV3	1180937 BSA000001210-001	4VW09 4VW10		serve biant						Non-r	2,11 3,01 0	FeP	01-005	5	10/20/2007	VGL Date	Date	Date	0 Nog. 0 Nog.	- F	Rail pressure too high (VW cold test); particles in H Rail pressure too high (VW cold test) particles in HI	PP 1 -	
ntent removed		03L 130 755	507 29 507 29	43784 WIA000001838-001 49867 WIA000001840-001	4VW80 4VW81	210		Gyoer Gyoer					espor sive		FeP FeP	01-0260		3/5/2008 3/11/2008				0 Nog. 0 -	- Z	ajos nem termel nyomást loise Pressure not OK	1 -	
		03L 130 755 A	508	49867 WIA000001840-002 ? IGH000000105-001	4VW82 4VW02	49		Gyoer X					-conte nt re		FeP	01-0456	02-0272	5/15/2007				0 Nog. 0 Nog.		loise Pressure not OK fuel pressure flow increases to about 8 bar after th tart within about 15 seconds (dynamometric brake		
	Engine CAS002261	1 059 130 755 AB .6	.611 28 611 29	01936 WIA000001637-001 69671 WIA000001879-001	4VW09 4A13	234	x		x		-	X	move	X X	FeP FeP	01-090	00.0040	9/28/2007 3/19/2008						The necessary pressure cannot be established to fuel pressure	1 -	Desiduel fuel le enclueix until 49.00 Corrected exclutes an finnes have
	Engine CBE003127	03L 130 755 A	508 611 31	17174 WIA00002060-001	4VW104 4A73		x		x		x	x	_	x	FeP	01-0010	02-0049	3/30/2008		_		0 Gün. 0 Gün.	Gün. H	Breakdowns on roller ligh-pressure pump drivetrain damage	1 OK	Residual fuel in analysis until 12.09 Corroded particles on flange bear- ing, frictional coefficient check roller-roller support with failure fuel OK. Frictional coefficient check roller-roller support with failure fuel OK
		059 130 755 AB6	611 AV3 1	148290 BSA000001162-001 148290 BSA000001162-001	4A02 4A03	60	X		X			Inadequate pre-filling		X	FeP FeP FeP	01-0410		5/14/2007 5/14/2007				0 Nog.	Nog. N	Particles in injector (delivered in disassembled state to output from CP4.2	1 🖂	
VW Jetta testing USA	GQG-1K59M029	059 130 755 AB6			4A07 1 4A08 1 4VW77	\$1	X X		X X		x	on CP7	_	X X	FeP	01-0076		9/20/2007	-	+	3/10/2008	0 Nog. 23.927 ?	Nog. E	Malfunction/ probably turned tappet ingine will not start. High-pressure pump function shavings in fuel system, malfunction	1 - 1 - Yes -	Hypothesis: Ridge on roller/ metallization on C layer
VW Jetta testing USA VW Jetta US07 USA fleet USA	3CL71K29M 8P281000225	03L 130 755 A	508 VA 507 29	98886 BSK000000839-001 73772 IGE000001819-001	4VW77 4VW119 4VW87	233	x			x	x				FeP FeP FeP		5	1/17/2008 10/12/2007			9/24/2008 3/19/2008	12,800 Nog. 15,425 Nog.	n.a. R	tail pressure sporadically not reached	1 4 -	Poor guality fuel!!!
Q-AL Q7 BIN5 1. Case USA Q-AL Q7 BIN5 2. Case USA Q-AL Touareg BIN5 USA	AU716 9 8018 AU716 9 8017 71.69D024	059 130 755 AG 059 130 755 AG 059 130 755 AG	613			246	x		x						X FeP X FeP	01-0633		11/30/2007 11/30/2007 1/22/2008				40,000 Nog. 62,300 Nog. 2,723 Nog.	Nog. E Nog. E	ngine died while driving at constant speed Breakdown /ebicle will not start	4 8 3	W19 tension roller instead of W24 W19 tension pulley Instead of W24 24 tension pulley
Q-AL Touareg BIN5 USA Q-AL Touareg BIN5 repeat USA	01/201004003	059 130 755 AG6 059 130 755 AG6 059 130 755 AB6	611 30	114805 IGG000002470-002	4A20	260 X	x		X			X	_	X	X FeP X FeP FeP	01-0908		1/22/2008 9/21/2007	11/7/2007 11/16/	2007 4/16/2008		7,486 Nog.	Nog. M	/ehicle will not start Cannot restart after stopping Mechanical fault sent to the stopping on 16.04	5 -	24 tension pulley 7??
Non-responsive content removed	8T68A038805 4LX8D036043 8K68N010292	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 30	81153 IGG000002702-001 81141 WIA000002031-001 94642 IGE000001961-001	4A29 4A46 4A30				X X X	x		x		X X X X X X X X X X X X X X X X X X X	FeP FeP FeP FeP FeP	01-0249	02.0641	3/11/2008 10/30/2007	3/29/2008 4/25/2 11/20/2007 12/18/	008 5/5/2008 2007 7/11/2008	6/9/2008 7/14/2008	744 Nog. 8,642 Nog.	Nog. E Nog. S	Section fault Section 21.07.08	1 OK	WK 29 to Bosch; frictional coefficient check roller-roller support with failure fuel OK.
	8T48A037796			94642 IGE000001961-001 96142 IGC00000953-001	4A44	x			×	X					2002/04		02-0641 02-0438	5/7/2008	3/25/2008 4/24/2	21.08 CONCLUSE			3	Part sent to RB in NSU on 30.07 Pump sent to Bosch + Fuel sent to 10000000000000000000000000000000000	1 OK	Frictional coefficient check roller-roller support with failure fuel OK
	8K59N001228 8T98A033470 4L68D056306	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 31 611 31 611 31	05630 IGG000002812-001 02978 IGG000002783-001 02986 IGG000002783-003	4A64 4A58 4A60				X			x		X X X	FeP FeP FeP	01-000	02-0346 02-0676	2/6/2008 2/6/2008 2/22/2008	5/28/2008 7/3/20 2/23/2008 3/28/2 3/13/2008 5/5/20	08 8/4/2008 008 5/19/2008 08 7/21/2008	8/22/2008 5/19/2008 9/10/2008	3,672 Nog. 3,476 Nog. 1,006 Nog.	Nog. E	Mechanical fault Electrical fault Suel sample taken on 8/27 and sent from	2 OK 1 OK	
	8K88N002761	059 130 755 AB	611 31	05738 IGG000002812-003	4A66				x	x	- 1	^		x	2.2.2.2.2.2	100.201000	5	CONTRACTOR STREET, C	COMPANY CONTRACTOR	Call Contraction Contraction					2 -	
	8T08A023636 8K38N012422 8K29A029401	059 130 755AB6 059 130 755 AB6 059 130 755 AB6	611 31 611 31 611 31	27768 IGG00002876-003 27772 IGG00002876-001 27802 IGG00002876-004	4A76 4A78 4A79	X			X				+	x	FeP FeP FeP FeP FeP	01-0378	02-0905	2/11/2008 5/8/2008	1/11/2008 3/20/2 12/10/2007 1/9/20 3/5/2008 4/8/20 6/4/2008 6/26/2 ? 1/25/2	08 8/26/2008 08 8/18/2008 008 8/4/2008	8/26/2008 9/9/2008 9/26/2008	14,838 Nog. 8,554 Nog. 2,882 Nog.	Nog. F Nog.	uel		
	4LX8D039881 4L38D034411	059 130 755 AB6 059 130 755 AB6	611 31 611 I	27802 IGG000002876-004 27745 IGG000002876-002	4A77	X	3		X X X X			X		X	FeP	01-016							1.0	itter+Fueron 22.10 Pump spark	2 OK	Frictional coefficient check roller-roller support with failure fuel OK
	4L18D033628 4L78D046920 7LZ8D044505	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 31	51310 IGG000002928-001 53170 IGG000002933-001 Touareg WIA000002116-001	4A94 4A95 4A87	X	(* 1		X X X X X X X X X X X X X X X X X X X			X X X X X X		X X X X	FeP	01-016		10/4/2007 1/10/2008 11/7/2007	11/9/2007 12/28/ 1/25/2008 2/21/2 2/13/2	2007 9/11/2008 008 9/2/2008 008 5/12/2008	9/11/2008 9/23/2008 5/12/2008	10,563 Nog. 26,414 Nog. 3,000 Nog. 10,426 Nog.	Nog. F Nog. F	uel on 22.10.	Yi Yi Yi	
	7LZ8D048650 4L78D048795	059 130 755 AB	611 VW	Touareg WIA000002116-001 Touareg WIA000002117-001 89357 WA000002030-001 24575 IGG000002871-001	4A88 4A45	X			x			X		X	FeP FeP	01-078	2	12/5/2007 1/16/2008	2/7/20 2/5/2008 4/18/2008	08 5/26/2008	6/30/2008	3,479 Nog.	Nog.		Yes 1 -	
	4L68D042017* 4L68D042017* 8T38A036218	059 130 755 AB6	611 31	24575 IGG000002871-001 24575 IGG000002871-002 00762 IGG000002768-004	4A74 4A75 4A53		3		x			X	-	x	FeP FeP FeP	01-1108	02-0026	1/15/2008 12/3/2007 2/20/2008	12/25/2007 3/27/200 12/25/2007 3/27/200 ? 7/15/2	3 3 008 7/25/2008	8/25/2008 8/25/2008 8/27/2008	5,352 Nog. 5,352 Nog. 1,044 Nog.	Nog.	VK 37 to Bosch /ehicle will not start	2 - 4 - 2 under ana	Frictional coefficient check roller-roller support with failure fuel OK
	7LZ8D045761	059 130 755 AB6	611 31	03651 WIH000000367-001	4A48	x			x			x		x	FeP			11/17/2007	2/8/20	08 7/22/2008	7/22/2008	Nog.	Nog. E	Engine will not start	lysis EHC 1 -	
	7LZ8D051766 7LZ8D044864 7LZ8D044864*	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 VW	Touareg WIA000002113-001	4A83 4A84 4A85	X			X X			X		X X	FeP FeP FeP	01-042	02-0385	12/17/2007 11/15/2007 3/3/2008	- 1/17/2	008 7/5/2008	7/3/2008 7/5/2008 8/5/2008	21,896 Nog.	Nog.		Yi - Yi - Yi -	
	7LZ8D046087 4L18D041101	059 130 755 AB	611 VW	Touareg WIA00002115-001 00802 IGG00002768-003	4A86 4A52			++	x x		-	x		X X	FeP			11/17/2007	- 1/21/2		8/23/2008		Nog.	fehicle will not start	Ye OK 1 under analy-	Frictional coefficient check roller-roller support with failure fuel OK
	4L27D075465	059 130 755 AB	1996	??? Part + fuel requested 7/30/200		173 X			×			x		x	FeP	+	02-0303	2/12/2008	1/17/2008 5/14/2	7/17/2008	7/17/2008	11,975 Nog.	Nog.		sis EHC 2	
	4L88D041225 4L58D053753 8T58A035253	059 130 755 AB	611 31	95199 IGE000001962-001 00810 IGG000002768-007 00782 IGG000002768-002	4A31 4A56	X			x			X X		X X	FeP FeP	01-004	02-0303	11/21/2007 2/12/2008	2/29/2008 4/1/20	008 7/3/2008 08 7/16/2008	7/16/2008	11,975 Nog.	Nog. F		Yi - 2 OK	Frictional coefficient check roller-roller support v
	8T58A036253 8T48A018326	0.03.457552934524002500	0.0191 0.0003	00782 IGG000002768-002 00822 IGG000002768-006	4A51 4A55	x			x	x			-	x	FeP	01-0004	02-0638	9/25/2008	3/11/2008 4/7/20	102 102100000	8/15/2008	6,566 Nog. 14,633 Nog.		ollow-up engine damage !!!.	1 under analy- sis EHC 1 under analy-	
	8T48A039614 8T48A031500	059 130 755 AB6	611 31	00777 IGG000002768-001 00816 IGG000002768-005	4A50 4A54								-	x	FeP	01-0075			4/3/2008 5/22/2	008 7/24/2008	8/15/2008	2,290 Nog.	Nog. V	/ehicle will not start	sis EHC	
	8148A031500 4L78D065466 4LX8D052338		611 31	04714 IGG000002783-004	4A54 4A61 4A59	X			X			X X		X X X	FeP FeP FeP	01-059	02-0612	4/19/2008 2/11/2008	28/2008 5/29/2008		8/8/2008 7/7/2008 6/9/2008	1,695 Nog	Nog. E	/ehicle will not start Electrical fault Mechanical fault	1 - 1 - 1 OK	Frictional coefficient check roller-roller support with failure fuel OK
	4L78D065662 4L98D058437	059 130 755 AB6 059 130 755 AB6	611 31 611 30	04944 IG 000002783-0025 45046 WI 000000324-001	4A62 4A24 2 4A57	X			X X X			X X		x	FeP FeP	01-113	02-0447	4/14/2008 - 3/6/2008 3/			7/11/2008 6/2/2008	4,496 Nog. 6,875 Nog.	Nog. F	Mechanical fault Electrical fault 'articles in fuel filter	1 OK 1 -	Frictional coefficient check roller-roller support with failure fuel OK
	4L98D058437	059 130 755 AB	200.2	08206 DQD000003720-001 43299 IGG000002897-002	1. 1. 1. 1. 1. 1.	x			×			x		x	FeP		02-0485	5/8/2007	3/27/2008 4/9/20 5/2008 4/21/2008	20	7/31/2008 13.5 8/11/2008	6 983 Noo	20076	/ehicle will not start	1 OK 4 OK	Incorrect installation of tension pulley; frictional coeffi- cient check roller-roller support with failure fuel OK
	4L98D012325 4L78D056296		611 31	57965 IGG000002962-001 58062 IGG000002961-001	4A96 4A97	X			x			x x		X X	FeP)	7/7/2008	3/13/2008 3/20/2008		7/18/2008	146	F	uel sent to Mr. on 22.10.08	Yes Yes	
	Z8D068514 4L88D052631 7LZ8D072348	059 130 755 AB6	611 31		4A92	X						X X			FeP FeP		02.0121	3/7/2008	5/15/2			9,438 Nog. 1,131			Yes -	Injectors to BaP for measurement + residual impunties
	7LZ8D072348 7LZ8D048789 7LZ8D067382	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 VW	Touareg WIA000002119-001	4A90 4A91 4A89	X			X X X		_	X X X			FeP FeP FeP	01-0336	02-0652	3/29/2008 12/5/2007 3/3/2008	- 12/28/	2007	7/21/2008 27.1	37 Nog 4,830 Nog	Nog. Nog. Nog.		Yi OK Yes -	
	3GZ88000673 8K98A032732	059 130 755 AB6 059 130 755 AB6	611 29	755/01 IGH00000402-001 81499 IGE000001824-001 137238 IGG000002557-001	4A14	250 X 235 X			XX	x		see ab		X X	FeP	01-0314	02-0752		9/13/2 3/18/2008 4/8/20	08	2/26/2008 4/14/2008	11,027 Nog. 6 Nog.	Nog. E Nog. V	ngine will not start /ehicle stopped while driving		
	8T98A041438 8K98N024347 8T68A022118		611 30	IGG000002557-001 IGG000002610-001 IGG000002767-001	4A22 4A26 4A49	X	_		X				-	X X X	FeP FeP	01-039	02-0570	4/5/2008	4/16/2008 4/28/2 4/22/2008 5/9/20 11/30/2007 12/7/2	08	4/28/2008 6/4/2008 6/23/2008	300 Nog. 2,764 Nog. 5,473 Nog.	Nog. F	/ehicle stopped Pre-glow system activated while traveling on motor /ehicle will not start	2 - way 2 - 1 under analy-	Frictional coefficient check roller-roller support with failure fuel OK
	7LZ8D057265	059 130 755 AB6		01070 WIA000002035-001	4A47	x	_	$\left \right $	x			x		x	FeP	01-0728		1/16/2008			6/10/2008	18,985 Nog.		ngine will not start, breakdown	sis EHC 1 OK	Corrosion: warranty rejected; frictional coefficient check roller-
	8T78A030714	059 130 755 AB6	611 31	18659 IGG000002864-002	4A71	x			x	x				x	FeP	01-010	2	1/3/2008	2/7/2008 2/27/2	008	8/6/2008	14,030 Nog.	Nog. D	Dispatch 09/08 Vehicle will not start, but engine tur ng over	n- 1 OK	roller support with failure fuel OK
	8T58A030355	059 130 755 AB6		21541 IGG000002864-003	4A70	x			x	X				x	FeP	01-086		100000000000000000000000000000000000000	2/7/2008 2/20/2	800	7/10/2008	6,140 Nog.	a	Dispatch 09/08 Engine failed while driving ind will not start	1 OK	with fuel check; frictional coefficient check roller-roller support with failure fuel OK
USA field Jetta US07 USA	W036616 3CZ8E214253 3CL71K79MO	03L 130 7555 03L 130 7556 03L 130 755 A6	507 QT 507 508 VA	98891 BSK000000343-002	JhP 4VW120				X X		x		Non-r		FeP	01-002	03-152	1/22/2008			5/5/2008	3,452 Nog.		ngine died while driving	Ye	6,7% RME, not the cause of drivetrain damage
USA field Jetta US07 USA USA field Jetta US07 USA	3AL71K99MO	03L 130 755 A	507 29	98891 BSK000000843-001 74476 IGE000001820-001		232 X			XX		X		tent r	1	FeP FeP	01-080	02-0954		2/4/2008 3/26/2	008	4/9/2008 3/26/2008	20 Gün. 25 Nog.	n.a. E	ngine will not start.	1 2 -	
Non-responsive content removed	8KX8N002048 8K58A037278	03L 130 755	507 30 507 30	131672 IGC00000945-001 151740 IGG000002594-001	4VW95 4VW97	274 X	_		x	x			emov	ec	EaD	01-026	02-0328	200700.000	12/20/2008 2/8/20 4/3/2008 4/4/20	226	5/27/2008	4,057 Nog. 814 Nog.	6	Breakdown will not start GM dated /9/2008 ne will not start.	Yes -	
internet terme ved	8K68A039265 8K88N022279	03L 130 755		18777 IGG2864		x			X	X X	1 1		-		FeP	P	02-0086 03-0134	3/15/2008 4/4/2008	4/10/2008 5/6/20 4/15/2008 4/16/2 5/9/2008 6/23/2		7/28/2008	4,682 Nog.	n.a. Elect		2 OK Yi	WK 29 to Bosch; frictional coefficient check roller-roller support with failure fuel OK. JhP: Fuel 306 ppm water; deposits, corrosion in pump
	8K19A033066 8K69A057895 8K48N016494		507 31 507 51 507 51	Part + fuel + filter delivered	-	X				X X						+			03/25/2008 4/16/20		10/15/2008 2008	9,000				
	8K58A025082	03L 130 755				X				x					FeP	1	02-0341	2/5/2008 2	25/2008 4/5/2008		6/2/2008 21,92	1 Nog.	n.a. Pun	p sent to Bosch 15.09	1 OK	coefficient check roller-roller support with failure fuel OK
Parts unavailable 6 cvl. 2.71 / 3.01	8T08A032210	059 130 755 AB	611 A5 2	Filter 2.7L TDI		X	1		X		10 - 21		1	X	FeP	-			3/18/2	008	4/15/2008	434			11	Ĩ
Non-responsive co tent removed	8T58A036673 8K88N011315 8K88N011508	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6				X			X	X X				X X X	FeP FeP FeP FeP FeP FeP FeP FeP FeP FeP	+			4/9/20 2/29/2008 4/2/20 2/28/2008 3/28/2		6/2/2008 6/5/2008	1,462				
	8K48N026913 4L48D050620	059 130 755 AB0 059 130 755 AB0	611 A4 2 611 Q7 3	2.7L TDI 3.0L TDI		X			X X X X	x		x		x	FeP				5/7/20 2/13/2	08	6/10/2008 5/20/2008	850 454				
	4LX8D059368 4L98D052833 7LZ8D072828	059 130 755 AB 059 130 755 AB 050 130 755 AB 051 13	611 Q7 3 611 Q7 3 611 VW	3.0L TDI 3.0L TDI Touareg	-		_		X X X					X X X	FeP FeP				5/13/2 2/25/2008 4/25/2 5/16/2		5/19/2008 5/15/2008	130 2,665 3,386				
	7LZ8D042792 7LZ8D072161	60 130 755 AB6 61 130 755 AB6	611 VW 611 VW	Touareg Touareg		X			X			x x		X X	FeP				12/20/ 6/2/20	2007 D8		15,592 3,908				
	7LZ8D043956 4L98D048085 4LX8D052548	61 130 755 AB6 62 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 VW 611 Q73 611 Q73	Touareg 3.0L TDI 3.0L TDI					X					X X X	FeP FeP	01-110	8	1/15/2008	1/4/20 1/31/2008 4/30/2 2/25/2008 3/27/2		6/7/2008	12,422 1,000 2,720				
	8T08A045409 4LX8D059760	059 130 755 AB6 059 130 7	611 A5 2 611 Q7 3	2.7L TDI requested 3.0L TDI		X			x x x x x x x x x x x x x x x x x x x	X				X X	FeP	01-0429		7/7/2008	5/30/2	008	9/1/2008	3,324				
	4L08D046354 4L18D044077 4L18D058416	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 Q73 611 Q73	3.0L TDI 3.0L TDI 3.0L TDI		X			X			x x x x x x x x x x x x x x x x x x x x		X X X	++	+				-						
	4L28D043245 4L38D053931	059 130 755 AB6 059 130 755 AB6	611 Q7 3 611 Q7 3	3.0L TDI 3.0L TDI		X			x			X		X X X X							7//7/0000	40.000				
	4L78D043225 4L48D058099 4L58D051002	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 Q7 3 611 D7 3	0.0L TDI 0.0L TDI 0TS 7/30/2008	222	X X X			X X X X		-			X	FeP	-	02-0310	2/2/2008	3/28/2008 4/10/2 2/15/2008 3/5/20	008	7/3/2008	4,000 8,706				
	4L78D041653 4L78D067511 4L88D048966	059 130 755 AB6 059 130 755 AB6	611 Q7 3 611 Q7 3	3.0L TDI 3.0L TDI 3.0L TDI		X			X		- 2 - 3	X		X X X												
	8K18A017285 8K78A022720	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 unk 611 unk	known known		X			X X X X X X X X X X X X	x		^														
	8TX8A034465 8T28A031785 8T58A036237	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 A5 2 611 A5 2	2.7L TDI 2.7L TDI 2.7L TDI		X			X					X X X												
	8T28A015568* 8T28A015568*	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 A5 2 611 A5 2	2.7L TDI 1. Failure 2.7L TDI 1. Failure 2.7L TDI 2. failure requested 7/22/2008 Touareg		X X			X					x x	FeP FeP	-			10/5/2007 1/4/20 10/5/2007 1/4/20		7/7/2008	14,000 16,471				
	7LZ8D059328 7LZ8D077002 7LZ8D079271	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 VW	Touareg Touareg		X			X X			X X		X		F			6/20/20	008		4,590 13,657 2,105				
	7LZ8D079271 7LZ9D001269 7LZ9D001482	059 130 755 AB 059 130 755 AB	611 VW	Touareg Touareg					X X X			X X X X X X X	_	X X X	FeP FeP FeP	F			7/16/2 7/29/2 7/10/20	108		2,105 2,518 3,614				
	7LZ8D079271 8K58A002031 8T48A028709	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 VW 611 A4 2 611 A5 1	Touareg Touareg 2.7L TDI 2.7L TDI		X			XX			X		X X X X	FeP FeP	\mp			7/16/2 11/15/2007 12/21/ 1/25/2008 2/15/2		7/4/2008	2,018 13,662 1,223				
	8148A028709 8T68A028422 8T48A038351	059 130 755 AB(611 A5 2 611 A5 2	2.7L TDI 2.7L TDI		X X X X			x					X X X X X	FeP				1/31/2 3/27/2008 6/25/2	008	7/2/2008	6,062 129				
	8T28A022021 8T58A046295 8T88A023416	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 A5 2 611 A5 2 611 A5 2	2.7L TDI 2.7L TDI Part + fuel requested 2.7L TDI Part + fuel requested		X X X			X	X					FeP FeP	01.040	02-0427	5/7/2008 11/3/2007	4/29/2 6/11/2 1/31/2	008 008 008	9/19/2008 9/16/2008	12,800 14,823 18,021				
	4L18D052874 4L38D051516	059 130 755 AB	611 Q7 3 611 Q7 3	3.0L TDI Part + fuel requested 3.0L TDI Part + fuel requested					x			x		X	FeP		02-0532	1/30/2008 1/30/2008	4/24/2 3/31/2	008	10/14/2008 10/9/2008	12,644 20,800				
	4L48D065554 4L38D046235 4L68D050943	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 Q7 3 611 Q7 3 611 Q7 3	2.7L TD1 Part + fuel requested 2.7L TD1 Part + fuel requested 3.0L TD1 Part + fuel requested 3.0L TD1 Part + fuel requested 3.0L TD1 Part + fuel request 3.0L TD1 Part + fuel request 3.0L TD1 Part requested 3.0L TD1 S0L TD1					X			X X X X X X X X X X X X X X X X X X X		x	FeP FeP	01-0174	02-0091	4/19/2008 12/20/2007	5/14/2 3/6/20 3/6/20	008 9/2/2008 08 10/22/200	10/16/2008 10/22/2008 10/1/2008	3,427 16,405 13,500	+ 1			
	4L88D050943 4L88D041600 4L98D054100	059 130 755 AB	611 Q7 3 611 Q7 3	3.0L TDI 3.0L TDI		X			X					x x	FeP	01-009	02-0203	11/21/2008 2/13/2008	2/15/2 3/28/2	008		21,375 18,691				
	4L78D041507 7LZ8D038732 7LZ8D049004	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 Q7 3 611 VW	3.0L TDI requested Touareg					X X			X X		X	FeP FeP	F			12/31/ 12/11/ 3/18/2		8/8/2008 7/29/2008 8/4/2008	26,931				
	7LZ8D049004 7LZ8D076990 7LZ8D065032	059 130 755 AB	611 VW	Touareg Touareg		X X X X			X X X X					X X	FeP	1			6/13/2 3/25/2	008 008	8/5/2008 8/6/2008	7,914 4,065				
	7LZ8D042129 7LZ8D056223 7LZ8D056223	059 130 755 AB(059 130 755 AB(059 130 755 AB(611 VW 1 611 VW 1	Touareg Part + fuel + filter request Touareg Part + fuel + filter request					X			X		X	FeP FeP	F			1/31/2 5/6/20	800		4,536 1,090 9,841				
	7LZ8D064426 7LZ8D065387	059 130 755 AB	611 VW 1	Touareg Part + fuel + filter request Touareg Part + fuel + filter request		X X X			X			X X X		× x x x x x x x x x x x x x x x x x x x	FeP	1			6/16/2 5/16/2 5/29/2	008		9,841 11,110 5,400				
	3DZ88000892 3DZ88002927 8T68A033930	059 130 755 AB6 059 130 755 AB6 059 130 755 AB6	611 30 611 30 611 A6 3	Touareg Touareg Touareg Touareg Part + fuel + filter request Touareg Part + fuel + filter request Touareg Part + fuel + filter request Touareg Part + fuel + filter request 3355A Part + fuel + filter request 3355A Part + fuel + filter request 2.7L TDI Part + fuel requested		X			X	x				x		+			12/28/ 2/27/2	2007 008 008	10/8/2008	3,090 4,141 24,327				
	8K98A036067	03L 130 755	507 A4 2	2.01 TDI Part requested WK22		X										Ť		1				_				
	5NZ8W024309 5NZ8W024309 3CZ8E203203	03L 130 755 03L 130 755 03L 130 755	507 Tiguar 507 Tiguar 507 Passo	2.01 TDI Part requested WK22 in 103kW Part for SZ requested 9/19/20 in 103kW Part for SZ requested at 103 kW	08	X X X			X X	x	x					1			1/29/2008 1/29/2008 3/7/2008 + 4/4/20	08	8/12/2008	5.095	+			
2	- JANGLED JEUJ	1000 100 100 [1]	10000	and Added.											_		• • • •	1		-						

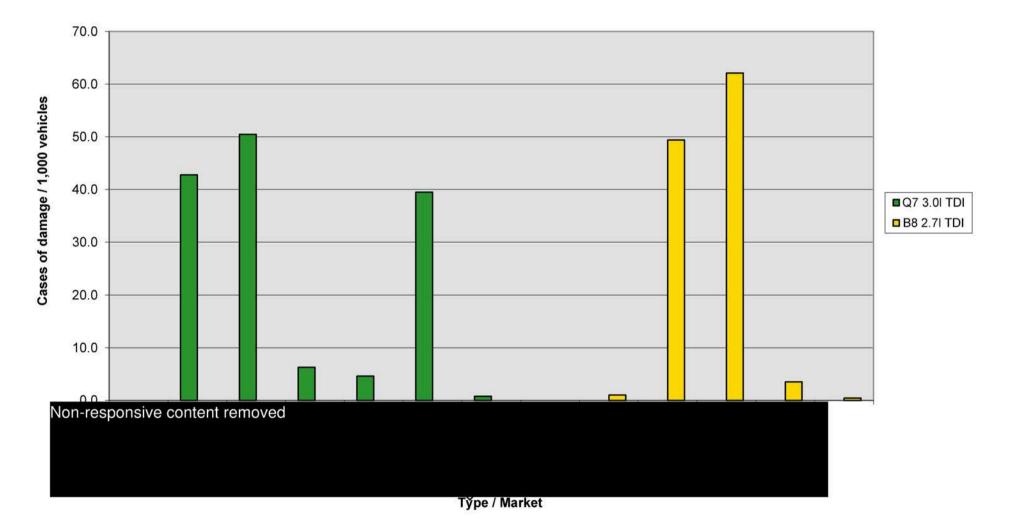
EA11003EN-01449[1]

Vehicle failures in the field on

Model		Market	Failures	Total	Delivery vol-	First vehicle	Eailura que	Eactor above	Eactor above	Pemark
Model	Engine	Warket	railures	Total			Failure quo-	Factor above	Factor above	Remark
					ume Vehicles	delivery	ta per	average in	average in	
					SOP - June 08		million to	comparison	comparison	
Audi Q7 3.0I	3.01	worldwide		46	19,344	in the market	June 08	worldwide	Germany	
Audi Q7 3.01		Contraction of the second s	0	40	5,685		2.4			
i		Non-respon sive conte	8	-	187		42.8		#DIV/0!	
		aiva aanta	16		317		42.0		#DIV/01	
2		sive conte	3		477		6.3		#DIV/01	
-	8	nt removed	9	-	1,954		4.6		#DIV/01	
	4		3	-	76		4.6		#DIV/01	
			2		2,612		0.8		#010/01	2
			2	-	?		0.0	1		1 uph 2 failurea
	-	-	1		?		¢.		-	1 veh. 2 failures
			1		?	-	-			-
		-	1		?				-	· · · · · · · · · · · · · · · · · · ·
Aud: A4/AE 2.01	2.01	-		10			0.4			
Audi A4/A5 2.01	2.01		6	10	87,660 24,813		0.1			
-	G		2		24,813		0.2			
	2		1	-	1,724		0.6	5	2	
	2		1	-	1,225		0.8		3	
Audi A4/A5 2.71	2.71			36	1,225		1.9		3	
Audi A4/A5 2.71	2./1	-	6	30	5,899		1.9			
-		-	12		243				40	
-		-			161		49.4		49	
		-	10 7		1,985				61	
		-	1	-	2,329		3.5		3	
A	2.01	-	1	-			0.4		-	
Audi A4/A5 3.0I	3.01		0	1	?				-	
-		-	0	-	?		-			
MAL Diseases 2 OI	2.01	-	1	-					-	Late deserve assessmentilation in 00/070
VW Phaeton 3.0I	3.01	-		3	2,807		0.0	1		Late damage, poor ventilation in 06/07?
		-	1		-	-		l	-	4
104/ T 0.01	0.01	-	2		40.000					4
VW Touareg 3.0I	3.01	-		30	13,266		2.3			
		-	1		4,780		0.2		000	Overlaine of exceeding of blading at in
		-	6		141				203	Suspicion of proportion of biodiesel in
-	-	-			789		6.3		30	
		-	5		789		6.3	5	30	
-	<u>.</u>		5	-	2,437		2.1	1	10	
-			5		2,437		2.1		10	
VAN Decent 2 01	2.0I VW all		1	6	1			-		
VW Passat 2.01	2.01 VW all		0	0				-		-
-	-		1				~			
VAN Tiguan 2.0	2.01		- 1		18,752		#VALUE!		-	1 n
VW Tiguan 2.0I	2.01		1		18,752		#VALUE!			
14	÷	-				5. 	0. 10		-	1
VW Jetta 2.0I	2.01	USA	2		?					-
AudiA4/A5		Non-responsive con			ſ	L		1	1	
AudiA4/A5	unknown	tent removed	2							
2	unknown		1							
Field Astal	unknown		132					05	Deliveries	Failure sate (nea mill)
Field total			132			3	Non-respons	Qty.	Deliveries	Failure rate (per mill.)

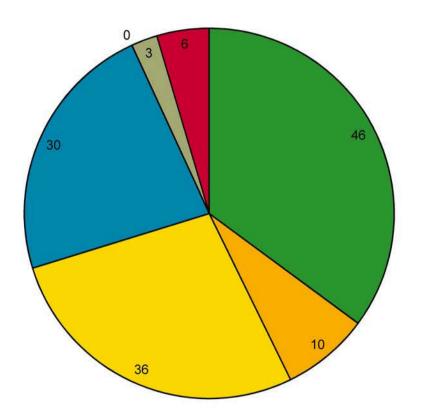
	Qty.	Deliveries	Failure rate (per mill.)
Non-respons	31	2295	13.5
ive content	33	478	69.0
removed	3	477	6.3
	24	5051	4.8
	#VALUE	62736	#VALUE





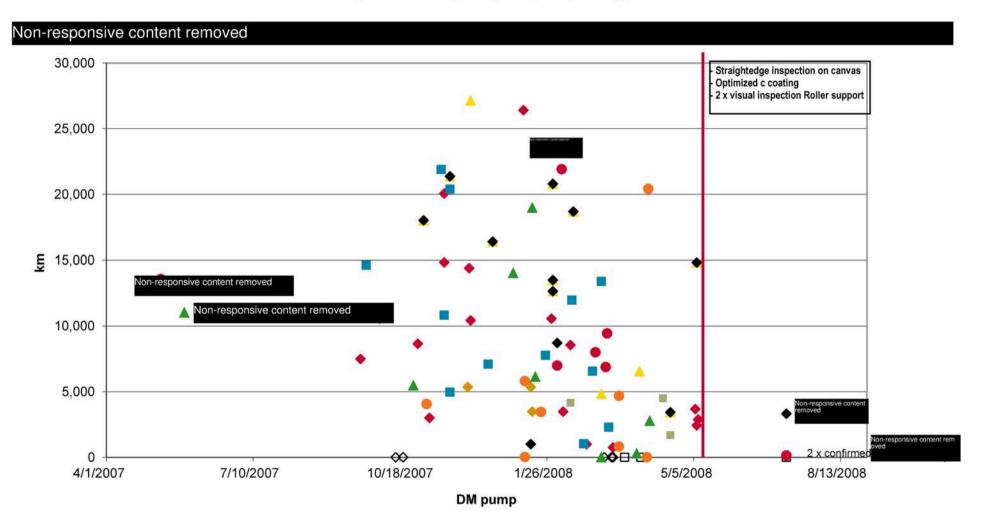
EA11003EN-01449[3]

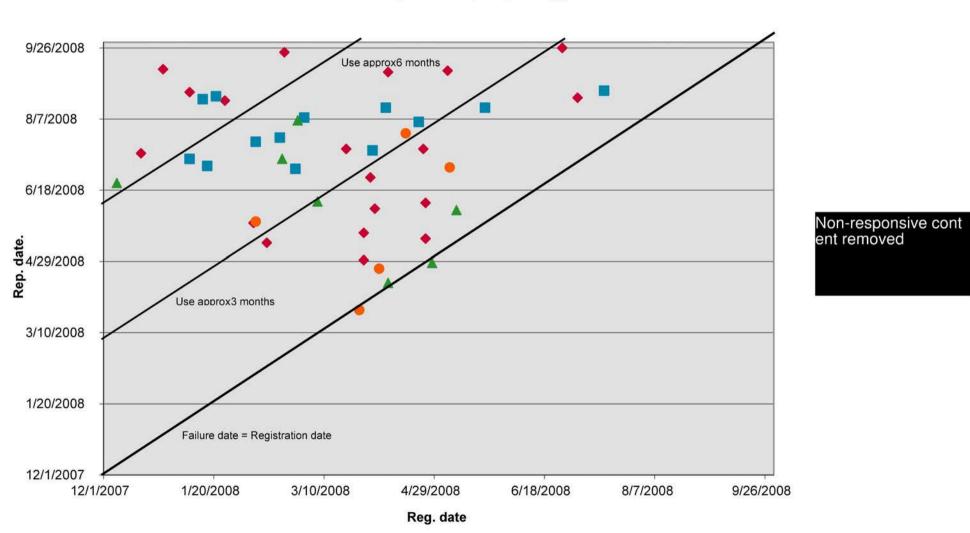
Number per model / engine (without individual cases)



Audi Q7 3.01
Audi A4/A5 2.01
Audi A4/A5 2.71
VW Touareg 3.01
VW Tiguan 2.01
VW Phaeton
3.01 2.01 VW all

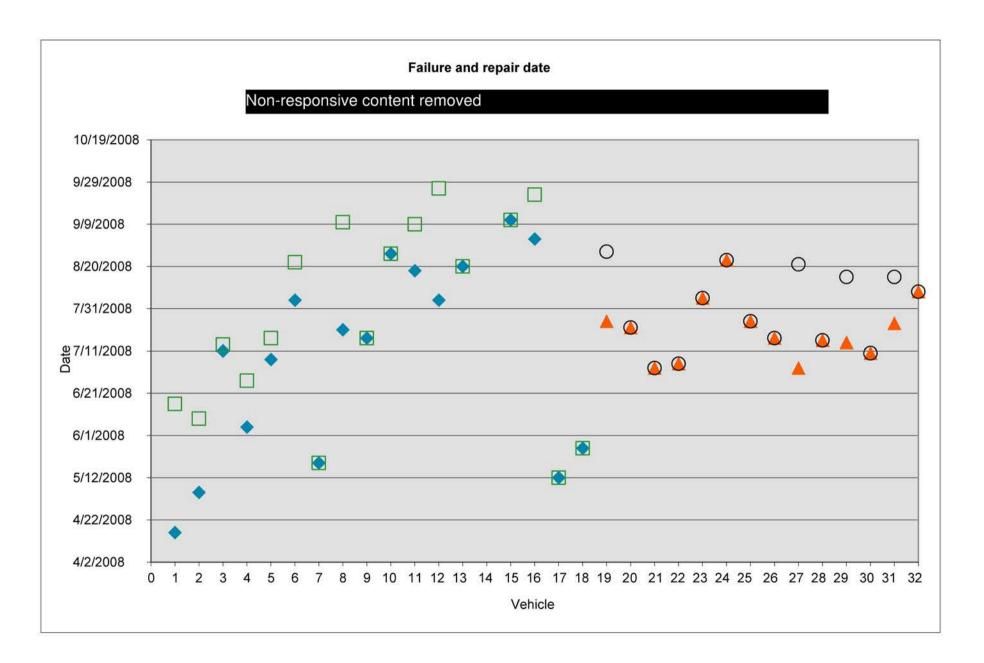
km over DM (field failures, analyzed pumps only)

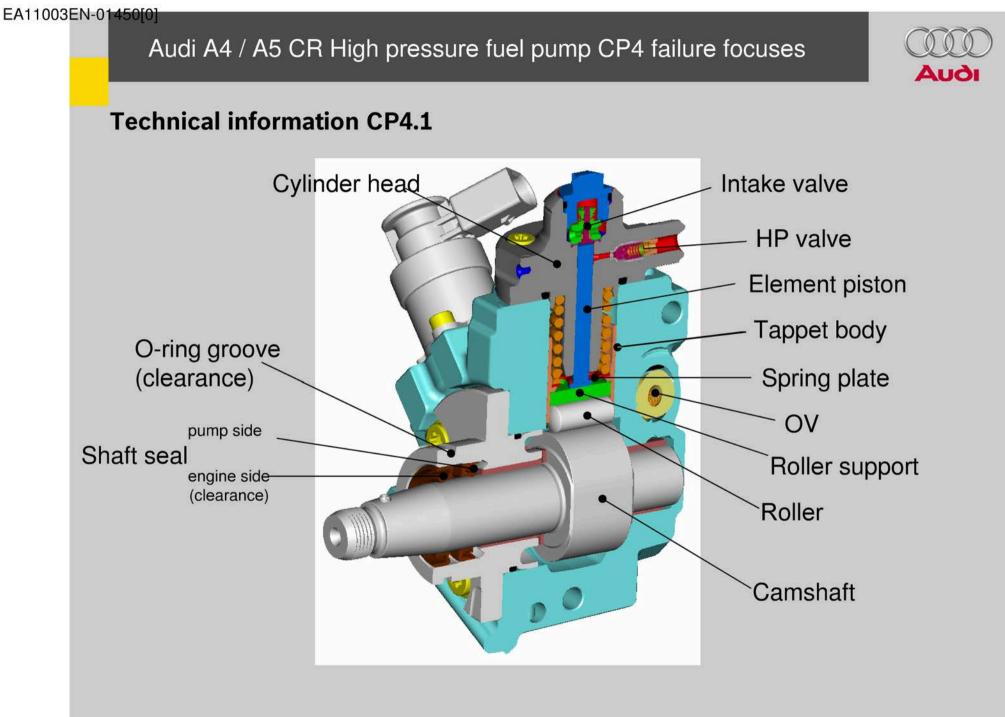




Reg. date over rep. date (received pumps only)

EA11003EN-01449[6]



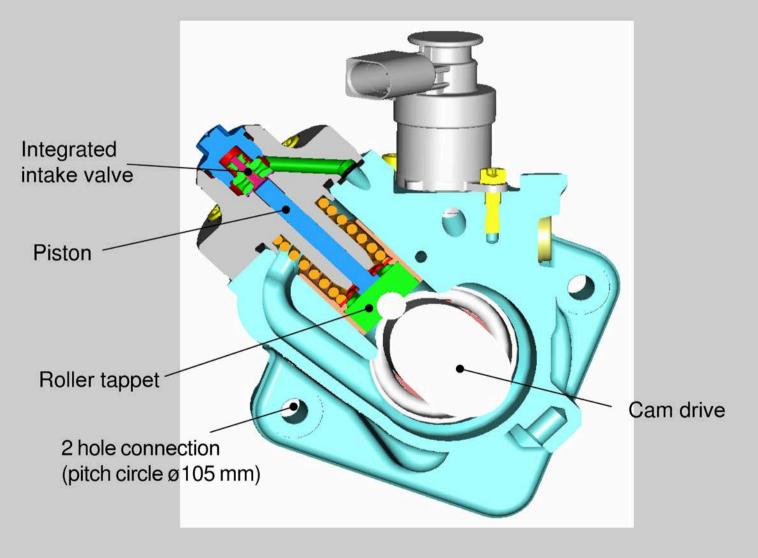


EA11003EN-01450[1]

Audi A4 / A5 CR High pressure fuel pump CP4 failure focuses



Technical information CP4.1

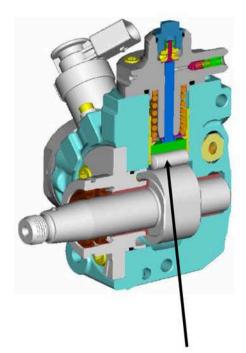


EA11003EN-01450[2]

Status V6 TDI HPP: Drivetrain damage



High pressure fuel pump CP4.2

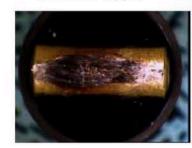


Right roller tappet





Left roller tappet



	SWAG		Agenda Diesel engine Q campaign	n ^{e.}		
Non-respo on: 10	nsive conte /27/200		Location: Non-responsive content removed	08:30 - 10:05	;	
		8 Proble Status Runni Custo Engin Repai No pro- Prese camp be aff => Pro There meass Additi ed to Fuel e 1. Wa Estim 1.1) A train o 1.2) A contin	Location: Mentasponsive content removed at high pressure pump em number: 2514165 s: 0 ing time: 3 weeks mer complaint: e does not start, suddenly stops ir shop determination: essure in fuel rail, metallic shavings in fuel system instation as upcoming point for editorial meeting has requested AUDI to report on this in the diesel quality aign on 09/08/08 The 2.01 common rail engines could potentially tected by this issue. esentation of current status and next are currently corresponding PCCs in four markets. Appropriate ures have been initiated to correct known failure patterns. onal optimizations to be introduced at suppliers and are expect- be effective. examinations & fuel particularities hter ation: unlikely; however, 1 pump found with visible corrosion ction: Reproduction attempt with splash water; result: no drive- damage, slight traces of tarnishing in housing ction: Replication attempt with continual water entry (30% water) it: drivetrain damage after a few minutes action: WCF attempt with 1% water/salt solution & subsequent built operation with EN590	08:30 - 10:05 EA896 3.01 17 6kW I: 9/1/2008 A: 9/1/2008 I: 9/1/2008	-	ponsive conte
r responsive content		Drivet 2. Fue Estim 2.1) A Resul 2.2) A Resul 2.3) A Resul 2.4) A 3) Fue Estim 3.1) A by W Resul 3.2) A ure af 3.3) A (priori	t: Pitting on the roller -> if run further, likely train damage al form ation: probably in combination with other influencing factors action: Carry out research on fuel peculiarities in t: Use of ethanol fuels in previously exclusively for bus- th oil-lubricated drivetrain pumps action: Obtain fuel samples from failure map 10/24/08 t: TBD action: Analysis of fuel from failed pumps. D: ongoing by Audi, RB t: No striking features to date action: Analysis of fuel deposits. D: 10/13/08 by ation: probably in combination with other influencing factors action: Research particularities of fuel in D: 10/20/08 t: TBD action: Endurance run with non-OK Roller & GDK650 result: Fail- ter 35 hours with final turned tappet action: additional endurance runs with production abnormalities ty A, see endurance run overview) in fuel			10/22/2008

EA11003EN-01452[1]

VOLKSWAGEN Diesel engine Q campaign	
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EA11003EN-01452[2]

VOLKSWAGEN	Agenda Diesel engine Q campaign		
Non-responsive content remov On: 10/27/2008	ed Location:	08:30 - 10:0	5
3) Avoid rail syste - New w - Full chi 3.1) Avo pressing - Peeling coefficie The follo - Optimi - Avoidir Draw up Schedul Examina Striking 1 "brushim Analysis Change surface, Feasibili The ana 14 of the First fillir weaknes start time PDM: The inst ment(ma	has visited certain factories (not Skoda) and identified potential sees in the sees in the second startup specifications (initial startup, initial	I: 9/29/2008 A: 9/29/2008 A: 9/29/2008	Non-responsive content removed

EA11003EN-01463[0]

ENTIRE PAGE CONFIDENTIAL

From: Non-responsive content removed

To: CC:

Date: 6/8/2009 9:50:12 AM

Subject: Re: Presentation update - piston seizure - QTS 3356625 / 4VW205 Attachments: 4VW205k2.pdf

Hello Non-responsive content rem

sends his regards and has asked me to forward this e-mail to you, because he does not have your address and named you has his representative in his out-of-office mail.

maried you has his representative in his out-

A personal remark from me:

The agreed openness in dealing with expected problems once again failed to materialize. This does not help build trust. **"If someone thinks well of you, then make sure he is right"** (unknown)

With best wishes

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Quality Management V-Diesel Non-responsive content removed

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, Axel Strotbek, Werner Widuckel

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From Non-responsive content removed

Sent:Monday, June 08, 2009 10:08 AM

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Subject: ANS: Presentation update - piston seizure - QTS 3356625 / 4VW205

EA11003EN-01463[1]

Hello Non-responsive content removed

ENTIRE PAGE CONFIDENTIAL

I don't believe it!

This is the first time I've heard that Bosch cannot grind any more pistons. Internal failures started increasing in late April, and the grinding process has not been analyzed yet by early June? That's not BeQIK.

How many machines are affected? Which pump types? Tracking ability? Process data, statistical recordings, etc.? Forecast for 2 further cases derived from where? Comparison with Jihlava? etc.

I expect specific statements and process measures at our technical meeting in NSU the day after tomorrow. Otherwise we will block the Feuerbach line and source from Jihlava; it is in no small part due to such cases that we approved a second delivery plant.

With best wishes

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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 Winterkom

Vorstand/Board of Management: Rupert Stadler (Vorsitzender/Chairman), Ulf Berkenhagen, Michael Dick, Frank Dreves, Peter Schwarzenbauer, Axel Strotbek, Werner Widuckel

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Sent:Friday, June 05, 2009 4:44 PM

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Subject: Presentation update - piston seizure - QTS 3356625 / 4VW205

Dear

Here is the updated slide for the above case.

Best regards / mit freundlichen Grüßen

EA11003EN-01463[2]

Non-responsive content re moved Robert Bosch GmbH Non-responsive content remove d

Domicile: Stuttgart, Court of Registry: Local District Court Stuttgart, Commercial Register No. 14000; Chairman of the Supervisory Board: Hermann Scholl; Management Board: Franz Fehrenbach, Siegfried Dais;

Bernd Bohr, Rudolf Colm, Volkmar Denner, Gerhard Kümmel, Wolfgang Malchow, Peter Marks, Peter Tyroller; Uwe Raschke