

17 Electronic oil consumption measurement - Repair Authorization Model Year 2012> A4, allroad, A5, A5 Cab, A6 and Q5

17 13 41 2027501/6 September 27, 2013. Supersedes Technical Service Bulletin Group 17 number 11-24 dated November 11, 2011 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4, allroad, A5, A5 Cab, A6, Q5		All	2.0 TFSI

Condition

REVISION HISTORY				
Revision	Date	Purpose		
6	-	Revised header data (Added model year and engine codes)		
		Revised Service (Replaced GFF instructions with ODIS instructions)		
5	11/11/2011	Revised header data		
4	11/7/2011	Revised header data (Added model A6)		
3	11/2/2011	Revised header data (Removed model years 2009 – 2011)		
2	8/30/2011	Revised header data (Corrected VINs)		
1	8/24/2011	Original publication		

If there is a customer complaint about oil consumption, follow the procedure below.

Technical Background

In order to provide effective lubrication and cooling of internal engine components, all internal combustion engines consume a certain amount of engine oil. Oil consumption varies from engine to engine, and may change significantly over the life of the engine. Typically, engines with specified break-in periods consume more oil during the break-in period, and the oil consumption will stabilize after the break-in period. Refer to the *Owner's Manual* for specific break-in procedures.

Under normal conditions, the rate of oil consumption depends on the quality and viscosity of the oil, the RPM at which the engine is operated, and the ambient temperature and road conditions. Additional factors are the amount of oil dilution from water condensation or fuel residue and the oxidation level of the oil.

Utilizing the advanced sensor technology integrated in the 2009> B8 platform (A4, allroad, A5, A5 Cabriolet, A6, and Q5) equipped with the 2.0 TFSI (CAEB, CPMA) engine, it is possible to measure oil consumption electronically via a Guided Function test plan.

^{© 2013} Audi of America, Inc.

All rights reserved. Information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.



The advantages of an electronic measurement are:

- No engine oil required (only for top up)
- No hoist required
- Increased accuracy
- No manual paperwork (all information stored in GFF diagnostic log)

Tip: The electronic oil consumption measurement will only function on the 2.0 TFSI engine with engine code CAEB and CPMA.

Production Solution

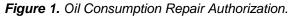
Not applicable.

Service

- 1. If the vehicle is within Warranty, you *must* obtain authorization from the Audi Technical Assistance Center before proceeding to Part 1 of the test.
- 2. When creating a TAC ticket, in the field *Concern Type*, select *Oil Consumption Repair Authorization*, as shown below (Figure 1).

Create Ticket

Ticket Informa	tion		
Select concern type			
Select concern type Oil Consumption Repair Authorization			
Audi Automatic Transmission Audi- Electrical and MMI A/C - CV Top -Brakes- Body/Chassis/Suspension & Air Bag	tion		
Engine and Engine Electronics	Year:		
Audi Standard Transmission and Final Drive Audi R8 Launch Repair Authorization			
	Select concern type Select concern type Oil Consumption Repair Authorization Audi Automatic Transmission Audi- Electrical and MMI A/C - CV Top -Brakes- Body/Chassis/Suspension & Air Bag Engine and Engine Electronics A8 W12 Repair Authorization Audi Standard Transmission and Final Drive		



© 2013 Audi of America, Inc.

All rights reserved. Information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.

Audi

Technical Service Bulletin

Start oil consumption measurement, Part 1

- 1. Park vehicle on a level surface, Guided Function test plan will *not* continue if vehicle tilt is more than 0.5 degrees (*side to side and front to rear*).
- 2. Right click 01-Engine Electronics >> select Guided Functions >> 01 Oil consumption measurement (electronic m., idle), as shown below (Figure 2).

• Officerd Dis Importer		444	VIN	WAUGFAFC4DN0750	07		~	
Dealer:		03999	Engine:	CAEB 2.01 TFSI / 155 /		a 🛔 🝗	(00	(Q)
Order:		-	Engine.	CALD 2 M TFOIT 1007			Audi	00
and the state of the	the second second	and accounting determined barraneers and	Guided Functions		8	1		dae a
Control modu	ules Resul	ts Orders DISS TSB Test plan	Ope Engine Control Module 1				Operating mo	idea ×
Control mod	ule list (70	entries)	01 - Control module, cod	ing			😵 Diagnosis	5
Add *	Fault	Name	01 - Control module, repl	acing and coding		^	() Self Diag	notis
01	0	Engine Control Module 1 (01 - E	01 - Intake Manifold Run	ner Flap Position Sensor, adapti	ng		Riash	
02	0	Transmission Control Module (02	01 - Read Measuring Va		BK 20TF	SIUSA)	Measurer	mont
03	0	Brakes 1 (03 - ESP Premium) (4	01 - Start/Stop Measurin	g values				ner n
04	0	Steering Angle Sender (Not yet	den 01 - Start/Stop Read His 01 - Throttle Valve Contro				lnfo	
05	0	Kessy (05 - Access/Start Author	zatio 01 - Valve Lift Changeov	er, checking			Admin	
06	0	Seat Adjustment Passenger Sid	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O				Log	¥
08	0	Air Conditioning (08 - A/C / Heat	ng E	Perform	ncel			
09	0	Central Electrics (09 - Vehicle El	ectrical System) (4H0907063Cl	G 0130 BCM12.0)			Data	¥
0E	0	Media Player Position 1 (Not yet	identified) ()				Extras	¥
<							Help	¥
Network diag	gram Contr	rol module list DTC memory list Ec	uipment list				r reip	
O Disas		ninu al Cadan						
Diagnos	is 🔳 Dis	play 💐 Sorting						4 🕗
						8		

Figure 2. 01 – Oil consumption measurement (electronic measurement idle).

3. Follow the test plan, Start oil consumption measurement, and observe all notes and cautions.

Tip: Attach the diagnostic log to the TAC contact and to the repair order.

4. Advise the customer to schedule an appointment at his or her convenience for the evaluation measurement (part 2) after 630 miles (1,000 km) have passed. If the low oil level warning light comes on before the mileage reached, the test is finished; the vehicle must be taken to the dealership for Part 2 of the Oil Consumption Test, regardless of the miles accumulated. The customer should *not* add any oil.

© 2013 Audi of America, Inc.

All rights reserved. Information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.



Evaluate measurement (following road test), Part 2

- 1. When the customer returns the vehicle to the dealership, perform Part 2 *Evaluate measurement of the Oil Consumption Test*.
- 2. Contact Audi Technical Assistance Center (TAC) with all test results.
- 3. You *must* attach both the GFF log and the oil measurement test sheet to the TAC ticket prior to contacting a TAC consultant.

Warranty

Only one oil consumption test will be reimbursed under Warranty within the next 25,000 miles (40,000 km).

U Note:

Oil measurement plan must be performed independently. Time for additional tasks performed via GFF should not be included in oil measurement time and is subject to removal.

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.			
Service Number:	1716			
Damage Code:	0010			
Labor Operations:	Start oil consumption measurement, Part 1	1716 0199	Time on GFF diagnostic log (Max 60 TU)	
	Evaluate measurement (following road test), Part 2	1716 0299	Time on GFF diagnostic log (Max 40 TU)	
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000 No allowance	Ο Τυ	
	Road test prior to service procedure	No allowance	0 TU	
	Road test after service procedure	No allowance	0 TU	
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance de			
Claim Comment:	As per TSB #2027501/6			

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

^{© 2013} Audi of America, Inc.

All rights reserved. Information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.



Required Parts and Tools

Required Tool	Tool number		
Dip stick tool	T40178		
VAS Tester	N/A		

Additional Information

All parts and service references provided in this TSB (2027501) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

© 2013 Audi of America, Inc.

Page 5 of 5

all rights reserved. Information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.