



Technical Service Bulletin

13 Engine oil level too low, engine oil consumption too high

13 23 21 2071114/2 November 17, 2023. Supersedes Technical Service Bulletin Group 13 number 23-19 dated August 31, 2023 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A8	2019 – 2021	Not Applicable	4.0L Engine
S8	2020 – 2023		
SQ7, and SQ8	2020 – 2023		
RS 6 Avant, and RS 7	2021 – 2023		

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Service</i> (Updated formatting) Revised <i>Required Parts and Tools</i> (Added parts table)
1	08/31/2023	Initial publication

Customer states:

- The vehicle is consuming too much engine oil.
- The engine oil level is too low.

Workshop findings:

- No visible engine oil traces/leaks are present.
- Oil consumption testing (executed in ODIS) has determined oil consumption to be over the allowed limit.
- No technical reason for oil loss can be determined.

Technical Background

Change to piston ring geometry.

Production Solution

Updated piston rings introduced.



Technical Service Bulletin

Service

Before attempting the repair service solution, the following training videos in *Audi Knowledge Tank (AKT)* **must** be watched and the respective online assessments **must** be completed with a passing grade. Training videos can be accessed by the following links:

Part 1: STV_0709, Piston replacement on the V8 TFSI engine of the EA825 engine series.

Link: <https://www.knowledgetank.audi/page/detail/type=stv&key=92d4dabc-0fc7-46d3-bd26-4cbc805fcfe8/>

Part 2: STV_0710, Removing and installing pistons on the V8 TFSI engine of the EA825 engine series.

Link: <https://www.knowledgetank.audi/page/detail/type=stv&key=1f565129-df9c-48b5-b724-9548d79e35ad/>

Part 3: STV_0711, Assembling on the V8 TFSI engine of the EA825 engine series.

Link: <https://www.knowledgetank.audi/page/detail/type=stv&key=e6f6d8b1-0154-456b-a88e-cd8da7c4b000/>

Part 4: STV_0712, Setting the valve timing on the V8 TFSI engine of the EA825 engine series.

Link: <https://www.knowledgetank.audi/page/detail/type=stv&key=e6f6d8b1-0154-456b-a88e-cd8da7c4b000/>

Part 5: STV_0713, Removing the adhesive seals on the V8 TFSI engine of the EA825 engine series.

Link: <https://www.knowledgetank.audi/page/detail/type=stv&key=d3ca2496-6ec6-44da-bc32-a690630654dd/>

Part 6: STV_0714, Removing, installing and cleaning the injectors on the V8 TFSI engine of the EA825 engine series.

Link: <https://www.knowledgetank.audi/page/detail/type=stv&key=10083817-5c33-4351-a9b6-5b5e1ca6928f/>

After watching the training videos, the online assessment **must** be completed through *Audi Certification and Resource Center (CRC)*.

NOTICE

Please **always** follow the repair process steps outlined in the workshop manual/ELSA.

Before attempting the repair service solution, the follow steps **must** be completed:

- Confirm that there are no visible engine oil traces and/ or leaks present.
- Perform an oil consumption test in ODIS in order to confirm that the engine is consuming engine oil over the allowed limit. Please refer to TSB **2059366** for additional instructions.
- Upload both GFF logs (i.e. Part 1 and Part 2) of the ODIS oil consumption test to GFF paperless.
- Confirm that oil consumption is over the allowed limit as per oil consumption test (executed in ODIS).
- Enter all of information that the ODIS tester prompts for entry, (e.g. driving profile data and Long-term memory of trip computer data). Photos must also be taken and uploaded to **DOCIT**.



Technical Service Bulletin

If the conditions mentioned above are met, and the technical reason for engine oil loss cannot be determined, proceed with replacing all 8 of the pistons and piston rings as follows:

Power Class 4 with Engine Code CXYA

- Bank 1 Pistons (piston rings included with pistons) : 0P2 107 066 L
- Bank 2 Pistons (piston rings included with pistons) : 0P2 107 065 L

Power Class 5 with Engine Codes CWWB, DWKA, DCUE, DWRB, DJPB, DWLA

- Bank 1 Pistons (piston rings included with pistons) : 0P2 107 066 M
- Bank 2 Pistons (piston rings included with pistons) : 0P2 107 065 M

Additional documentation

- A list of special tools required for this service solution (filename: "Special_Tools_List_Piston_Replacement_EA825.pdf")
- A replacement parts list (please use **ETKA with the VIN entered in conjunction with ELSA** to confirm current replacement part revision levels, this list is only for reference) (filename: "Sample_Replacement_Parts_Piston_Replacement_EA825.pdf")
- Installation and removal instructions for the engine wire harness (only for reference) (filename: "Sample_Engine_wire_harness_EA825_MLB65_A8.pdf")
- A list describing necessary repair step in chronological order that is to be used as need in conjunction with ELSA. (filename: "Sample_Repair_Steps_EA825.pdf")

Warranty

Claim Type:	<ul style="list-style-type: none"> • 110 Up to 48 Months/50,000 Miles. • G10 for CPO Covered Vehicles – Verify Owner. • If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	1319		
Damage Code:	0010		
Labor Operations:	Noise dampening pan remove+reinstall	1082 1900	See SRT with associated operations
	Check engine oil level. Visually inspect for tampering of oil consumption test at the oil cap, drain plug and dipstick.	1701 3599	Max 30 TU
	Engine complete remove+reinstall and mounting on engine stand (as needed)	1001 1923 Or 1001 1924	See SRT with associated operations



Technical Service Bulletin

	8 Pistons remove+reinstall (as needed)	1310 2073	See SRT with associated operations
	8 Connecting rods replace (as needed)	1340 5652	See SRT with associated operations
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (200 TU Max)
	Road test before the service procedure	No Allowance	0 TU
	Road test after the service procedure	No Allowance	0 TU
Claim Comment:	As per TSB 2071114/2		

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.

Required Parts and Tools

A complete list of **special tools required** and a **replacement part list** can be found in the attachments of this bulletin.

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
<u>Power Class 4 with Engine Code CXYA</u>		
0P2107066L	Bank 1 Pistons (piston rings included with pistons)	4
0P2107065L	Bank 2 Pistons (piston rings included with pistons)	4
<u>Power Class 5 with Engine Codes CWWB, DWKA, DCUE, DWRB, DJPB, DWLA</u>		
0P2107066M	Bank 1 Pistons (piston rings included with pistons)	4
0P2107065M	Bank 2 Pistons (piston rings included with pistons)	4

For a complete list of required tools, please review the attachment: special_tools_list_piston_replacement_ea825.pdf included with this bulletin.	
Tool Number	Tool Description



Technical Service Bulletin

VAS 6160/VAS 6150	VAS tester with the current version of ODIS (Windows 10)
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Additional Information

All part and service references provided in this TSB (**2071114**) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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