



Technical Service Bulletin

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

13 24 29 2071114/5 November 22, 2024. Supersedes Technical Service Bulletin Group 13 number 24-27 dated September 10, 2024 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A8	2019 – 2021	All	4.0l Engine
S8, SQ7, and SQ8	2020 – 2023		
RS 6, and RS 7	2021 – 2023		
S8	2024	000000 – 006056	
SQ7, and SQ8	2024	000000 – 002720	

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised <i>Technical Background</i> (Update verbiage) Revised <i>Production Solution</i> (Added VIN parameter) Revised <i>Service</i> (Photo upload requirements)
4	09/10/2024	Revised <i>Service</i> (Updated Reference TSB)
3	08/27/2024	Revised header (Added Model years)

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 1

Change to piston ring geometry on ring 2.



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Production Solution

From vehicle identification number A8: WAUZZZF88RN006057

From vehicle identification number S8: WAULSBF86RN005586

From vehicle identification number SQ7: WAUZZZ4M2PD039378

From vehicle identification number SQ8: WA1CWBF1XPD048562

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 at 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.



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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 to confirm that the engine is consuming engine oil over the allowed limit. Please refer to TSB **2074640** 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).

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"> • 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



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	Check engine oil level. Visually inspect for tampering of oil consumption test at the oil cap, drain plug and dipstick.	1701 3599	30 TU
	Engine complete remove+reinstall and mounting on engine stand (only if necessary)	1001 19XX	See SRT with associated operations
	8 Pistons remove+reinstall (only if necessary)	1310 20XX	See SRT with associated operations
	8 Connecting rods replace (only if necessary)	1340 5652	See SRT with associated operations
	GFF	0150 0060	Time stated on the diagnostic protocol
Claim Comment:	As per TSB 2071114/5		

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.



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Tool Number	Tool Description
VAS 6160/VAS 6150	VAS tester with the current version of ODIS (Windows 10)

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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