



Oil Leak at Crankcase Near the High-pressure Fuel Pump OM654

Topic number	LI07.02-N-079573
Version	2
Function group	07.02 - Injection pump, Plug-in pump, High pressure pump
Date	8/5/26
Validity	Engine OM654.9
Reason for change	Cause Update

Complaint

Visible oil leak at the crankcase near the mounting area of the high-pressure fuel pump on OM654 engines.

Attachments

File	Description
Bohrung HDP im KGH.jpg	Oil leak near mounting hole for high-pressure fuel pump

Cause

Oil leakage near the high-pressure fuel pump may result from insufficient sealing performance of the pump shaft seal and/or reduced sealing effectiveness at the interface between the high-pressure fuel pump and crankcase. Relative movement of the high-pressure fuel pump within the crankcase bore may reduce sealing effectiveness at the pump-to-crankcase interface and promote oil migration during engine operation.



Attachments

File	Description
Radialwellendichtring an der HDP undicht.jpg	

Remedy

Install a new high-pressure fuel pump together with the design-optimized sealing ring.

The replacement high-pressure fuel pump incorporates sealing improvements intended to address oil leakage originating at the pump shaft seal. Installation of the updated 2.6 mm O-ring improves sealing performance at the interface between the high-pressure fuel pump and crankcase. This repair addresses known leakage paths in the high-pressure fuel pump mounting area.

1. Replace the high-pressure fuel pump.
2. Remove and discard the 2.5 mm O-ring supplied with the replacement pump.
3. Install O-ring A0009973819 (2.6 mm cross-section).



4. Apply crack detection spray A0009890359 around the pump mounting area and verify repair effectiveness.

5. If oil leakage reoccurs after performing the repair, create a TIPS case and attach clear photographs of the affected area.

NOTE:

Ensure all part numbers are verified in EPC and Paragon systems. Warranty coverage is subject to MBUSA policy and VIN-specific eligibility.

Attachments

File	Description
Hochdruckpumpe + Dichtring.jpg	High-pressure pump together with design-optimized sealing ring

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that



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Symptoms

Power generation > Engine lubrication/oil cooling > Leakage > External oil loss

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0009973819			O-ring	1	Design-optimized sealing ring	
A0009890359			Crack detector	1		

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
		H	0720682	Fuel high-pressure pump oil loss