


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

Topic number	LI07.02-N-079573
Version	1
Function group	07.02 - Injection pump, Plug-in pump, High pressure pump
Date	7/25/25
Validity	Engine OM654.9
Reason for change	

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

The shaft seal (radial sealing ring) at the high-pressure fuel pump is not leak-tight, resulting in external oil leakage.

Attachments	
File	Description
Radialwellendichtring an der HDP undicht.jpg	

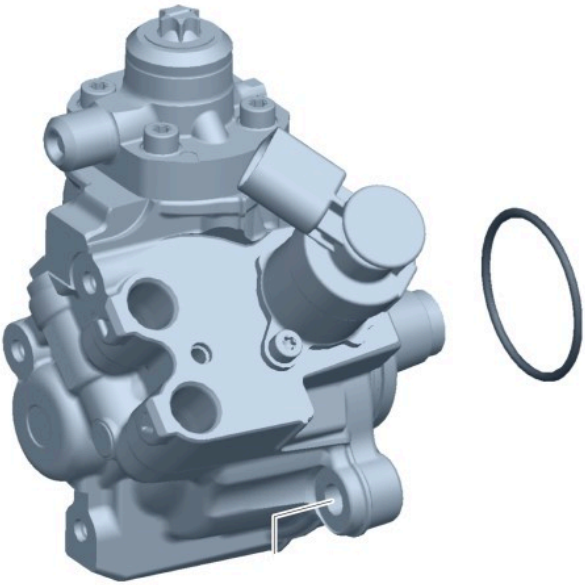


Remedy

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

1. Replace the high-pressure fuel pump.
2. Discard the 2.5 mm O-ring included with the new pump.
3. Install the updated 2.6 mm O-ring (P/N: A0009973819).
4. Verify the repair using crack detection spray (P/N: A0009890359) around the pump mounting area.
5. If the leak reappears, submit a TIPS case to the Powertrain inbox with reference photos.

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 could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

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	X
A0009890359			Crack detector	1		X
Operation numbers/damage codes						
Op. no.	Operation text		Time	Damage code	Note	

XENTRY Tips

		H	0720682	Fuel high-pressure pump oil loss
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