

 Preview Solution CBR-2409-2

## 13L Engine - Rear Main Oil Seal Leak - Model Year 2025

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### Valid For

**Volvo** VNL, VNR, VNX, VAH, VHD

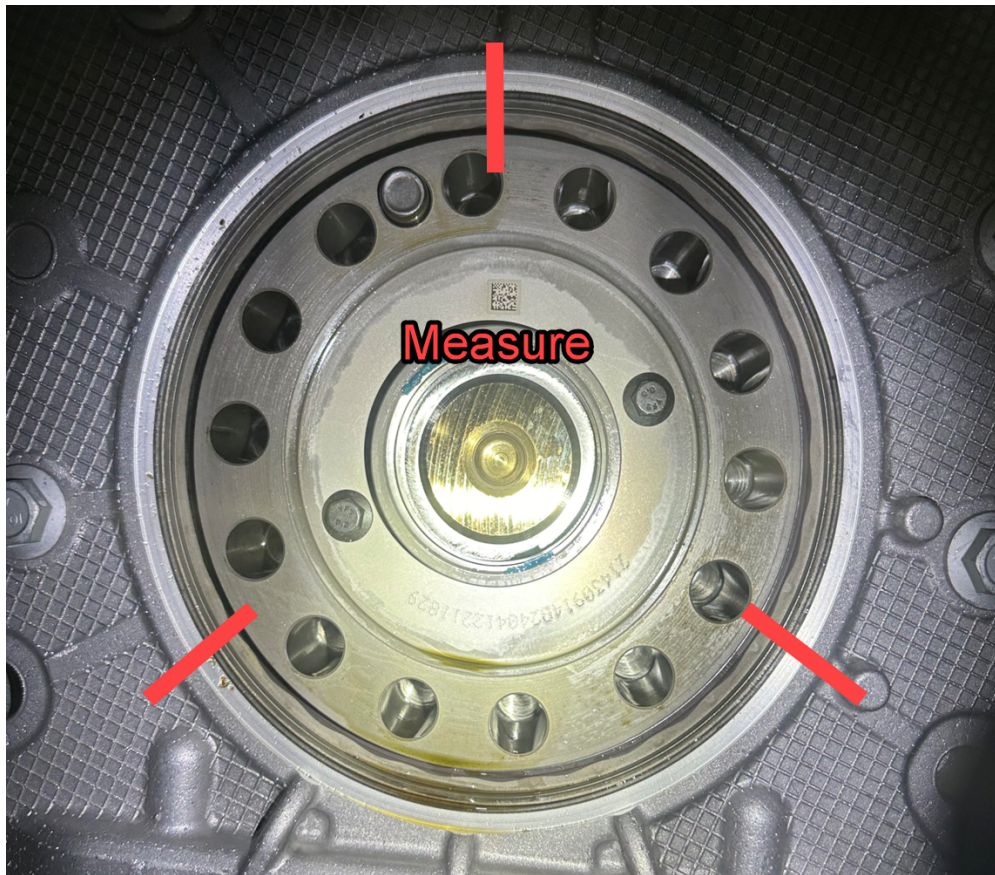
**Mack** AN, GR, PI, TE

Engine build date of 1 April 2024 and newer

### Solution

**If an applicable vehicle is found to have an oil leak at the rear of the engine:**

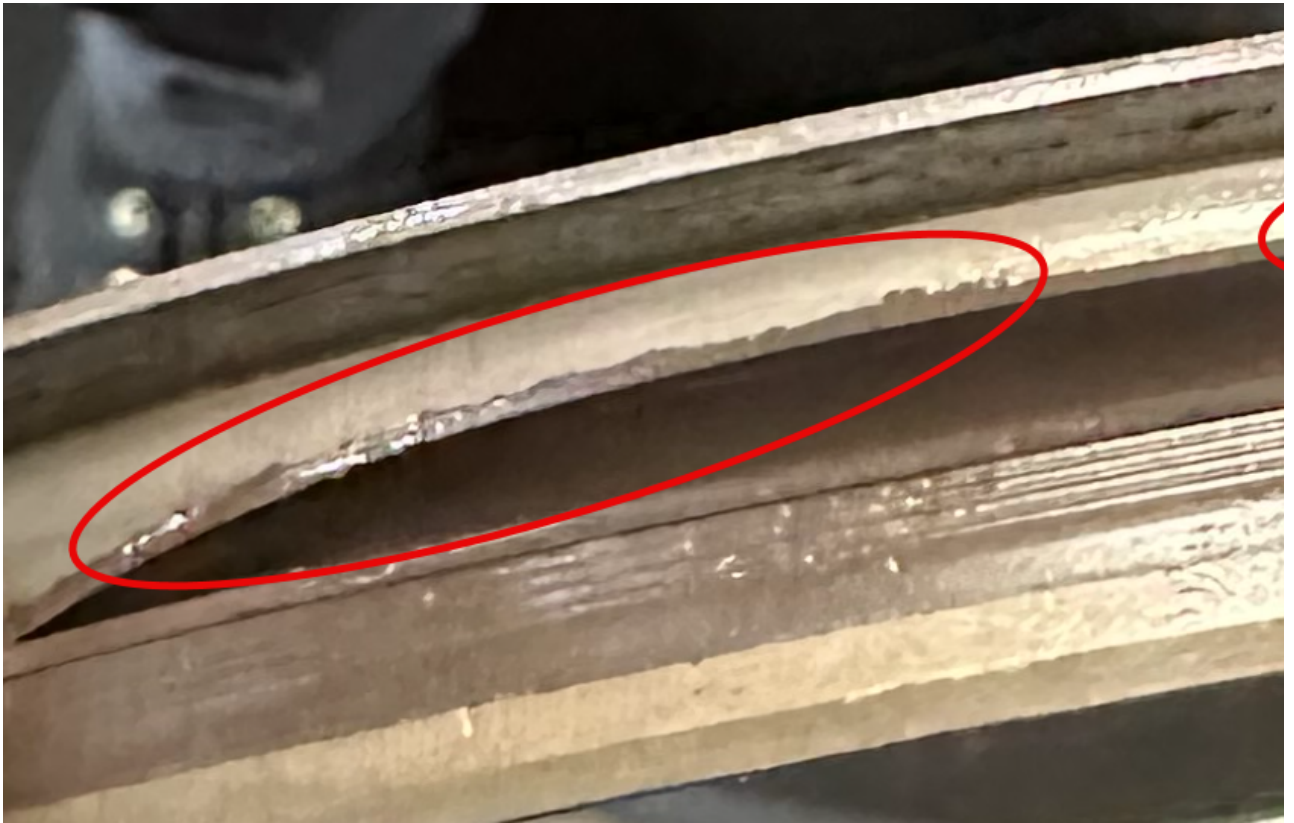
1. Open an eService case directed to Reliability.
2. BEFORE removing the flywheel, check the flywheel bolts for oil.
  - **If oil is coming from the flywheel bolts and the clutch is saturated** refer to CBR-997
    - Document findings and provide photos in the eService case.
    - Rear main seal inspection is not required if the o-ring is found to be the source of the leak.
  - **If there is no oil on the flywheel bolts and clutch** continue to the next step.
3. Take detailed, clear pictures of the currently-installed rear main seal:
  - Any damage or irregularities
  - Full seal view (as shown in the example in Step 4)
4. Measure the depth of the rear main seal in three places as shown below:  
Measurement should be taken from the face of the seal to the outer surface of the crank gear.
  - Record the measurements in the eService case
  - Specification for seal depth:  $8.5 \pm 0.4$  mm
  - All three measurements should be within 0.4 mm of each other



**5. Evaluate measurement results:**

- **If the seal depth is within specification and all three measurements are within .4 mm of one another:**
  - Pull the rear main seal.
  - Proceed with the inspection steps below.
- **If the seal depth is NOT within specification and/or the measurements are NOT within .4 mm:**
  - Update the eService case and await further instructions.

**6.** Inspect the seal for flash from the molding process or damage that was not visible with the seal installed. An example of flash is shown below.



Flash on seal from molding process



Damage to seal

7. Evaluate findings:

- **If flash and/or damage is found:**

- Take clear pictures of any flash and/or damage found.
- Attach the pictures to the eService case.

- **If flash is NOT found:**
  - Update the eService case and wait for further instructions.

## Related links and attachments

No links or attachments available



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