

Diagnostic Sheet

FROM: Maserati TSO
TO: Maserati Network



PERSONAL SERVICE LAB

MASTERS OF CARE

Engine Oil Leak Diagnostic Path

IMPORTANT NOTICE This bulletin supersedes MAS004438_A MTB 25-16 released on June 1, 2025. It includes updated diagnostic procedures. Please discard all previous versions.

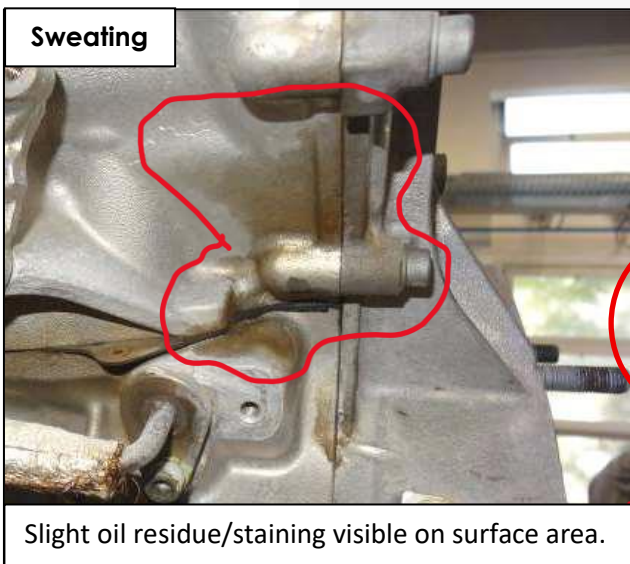
DATE: JULY 11, 2025

This diagnostic sheet is intended to assist technicians in identifying and differentiating engine oil leaks and sweating. A Blue On Line (BOL) must be opened as a 'Support Request' for all confirmed leaks requiring repair.

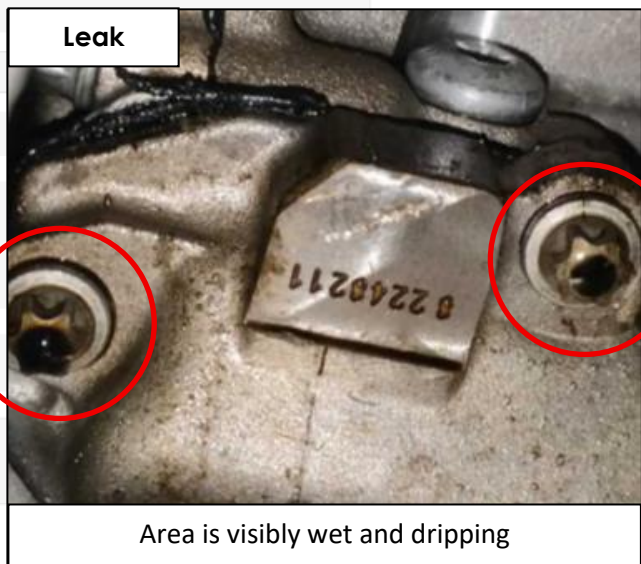
MODELS AFFECTED: All models and all engines.

Definitions

- **Sweating:** Oil present on components without ground stains or significant soiling.
- **Leak:** Oil loss that results in visible ground stains and/or underside soiling.



Sample photo: 3.0 V6 430HP engine



Sample photo: 2.0 L4 MHEV engine

In cases of confirmed leakage, corrective measures must be taken to restore the seal integrity of the affected components. However, under certain conditions, minor oil sweating may be considered normal and acceptable for the vehicle's age and usage. In such instances, cleaning the affected area is sufficient. This approach minimizes unnecessary repairs, reduces vehicle downtime, and enhances overall customer satisfaction.

Diagnostic Procedure

1. Check oil level and confirm consumption is within spec (refer to owner's manual).
2. Take photos of the affected area and the undercarriage. Note how the issue was reported (e.g., customer reported the concern to the dealer or found during routine inspection).
3. Clean all affected areas using fast-evaporating degreasers (e.g., brake cleaner).
4. Apply tracing agent (e.g., leak trace powder or spray) to cleaned surfaces.
5. Run the engine to normal operating temperature $>85^{\circ}\text{C}$ ($>185^{\circ}\text{F}$) and let it idle for at least 5 minutes, or test drive the vehicle to check for leaks.
6. Re-inspect and photograph affected areas.

Diagnostic Outcome

- **If it is sweating only:** Clean the area. No disassembly is needed. The diagnosis is complete.
- **If it is a leak:**
 - Do NOT disassemble.
 - Open a BOL as a 'Support Request'.
 - Once authorized, check for loose fasteners and document the results (refer to MAS004589 or latest).
 - Remove the component and take detailed photos of:
 - Contact surfaces (check for scratches or porosity)
 - Gasket uniformity (if present)
 - Once authorized, replace the leaking gasket following the workshop manual procedures for that component.
 - Repeat steps 3 through 5 to verify that the leak is no longer present.
- If the leak returns, it is mandatory to reopen or open a new BOL and include photo evidence and details of all diagnostic and repair steps performed.

Special Cases

- **For V6 Trofeo (Grecale/GranTurismo) and Nettuno (MC20) engines:**
 - If the timing cover is leaking, photograph the joint area (Figure 1).
 - Check for gasket protrusion into crankcase (Figure 2).
 - If protrusion exists, carefully trim it using a suitable tool without damaging aluminum surfaces.

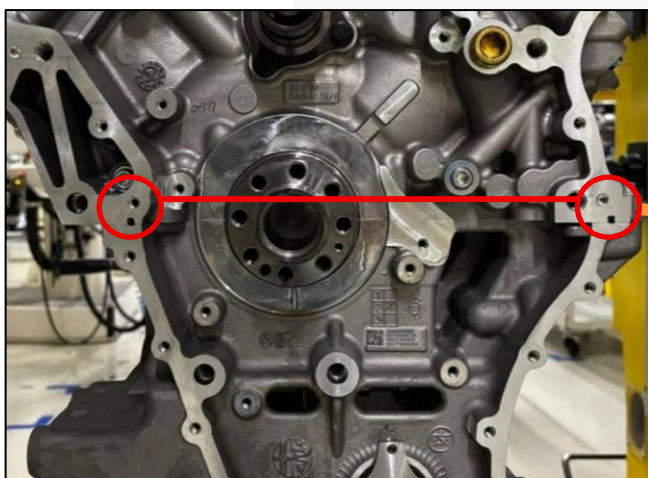


FIGURE 1

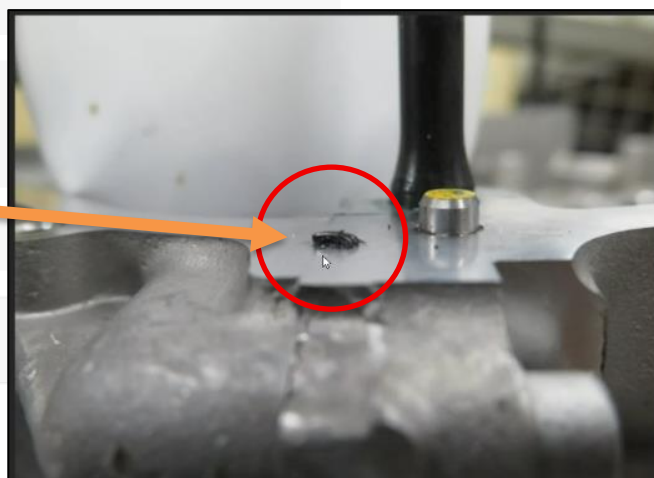


FIGURE 2

- **For V6/V8 engines (Quattroporte, Ghibli, Levante):**
 - If the leak is from the turbo oil return pipe and the torque is within 6–7 Nm:
 - Replace pipe and gaskets.
 - Replace the leaking gasket and torque fasteners per workshop specs.
 - Repeat inspection steps to verify and document resolution.

Warranty Claim Instructions

Use the following codes when submitting a claim:

Description	Code
Fault Code	059
Component Code	Enter the code of the component subject to the leak/sweat
Operation Code <ul style="list-style-type: none"> ▪ Leak Detection 	1.61.060.A (0.50 h)

For all leak cases requiring a BOL, authorization will be provided by the Product Support Team, including repair time guidance. Follow the technical documentation and replace any specified fasteners or gaskets.

Warranty Claim And BOL Attachment Requirement

All submitted photos and videos **must include** the following information **clearly visible within the image or video frame** (not just in the file name or description):

- Vehicle Identification Number (VIN)
- Date and Time the media was captured

This ensures proper documentation and claim validation.

If any of the above information is missing, Maserati reserves the right to request it before providing support/approval, or feedback to Blue On Line.

Maserati reserves the right to deny coverage for repairs not performed to factory standards.

Thank you for your attention.

TECHNICAL SERVICE OPERATIONS