

Diagnostic Sheet

FROM: Maserati TSO

TO: Maserati Network



PERSONAL SERVICE LAB

MASTERS OF CARE

Grecale Engine Oil Level Too Low Msg

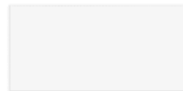
DATE: SEPTEMBER 27, 2024

This Diagnostic Sheet serves as a guide and provides additional diagnostic info for possible "Engine Oil Level Too Low" message on cluster on Maserati Grecale models.

MODELS: M182 Grecale MHEV (All MY).

CUSTOMER CONCERN: "Engine Oil Level Too Low" message on cluster

Description: If the vehicle has been in multiple times for an "Engine Oil to low" message in the cluster. Please perform the following inspections starting on page 2.



Check list:

- 1) Provide a full PDF scan report of DTC's and parameters from the vehicle.
- 2) Check the electrical integrity (ground, power supply, connector, and related wiring) of engine oil level sensor.
- 3) Remove and visually inspect all spark plugs and attach clear photos of their condition to the BOL case.
- 4) Perform an absolute compression test using picoscope and attach results to BOL case.
- 5) Using a borescope, take pictures of all 4 piston crowns, and all cylinder valve seats.
- 6) Inspect the engine for any oil leaks present. Make sure to inspect the following: engine, oil pan, engine oil drain plug, front timing cover, front/rear main seals, and the mating surface between the engine and transmission.
- 7) With the KOEO (Key On Engine Off) read/record the following parameters:
 - 3A48 - Engine Oil level raw value;
 - 0411 - Total Starts Counter;
 - 3A41 - Engine oil level
- 8) Drain and record the overall quantity of engine oil present in the engine oil pan (Do not include the oil that is present in the oil filter).
- 9) Ask the customer about their "driving style" → if the vehicle has been basically driven in "Manual" Mode @ high engine speed and high loads.

Please open a BOL (as Support Request) by uploading all required pictures and information from above requests.