

Technical Information

FROM: Maserati TSO

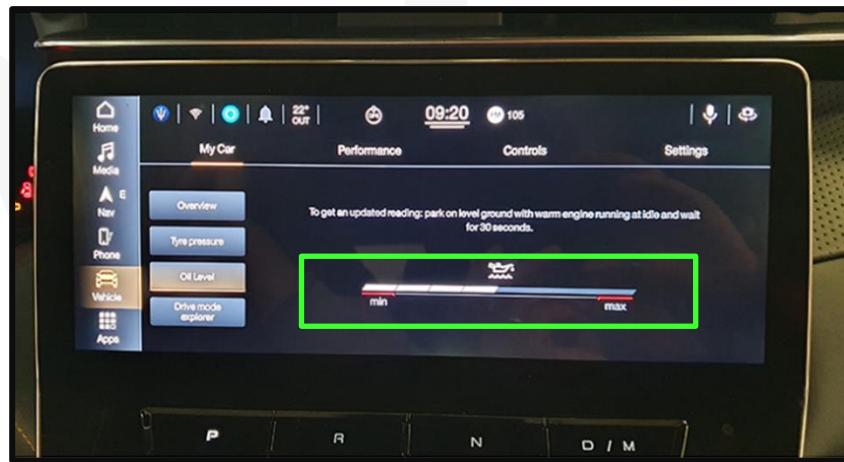
TO: Maserati Network



PERSONAL SERVICE LAB

MASTERS OF CARE

Updating The Engine Oil Level for Hybrid and Trofeo Models



ATTENTION! This bulletin supersedes [MAS004058 MTB 24-16](#) released on March 22, 2024. This bulletin has been updated with new info. Please discard/remove all copies of the previous bulletin.

DATE: May 7, 2024

This Technical bulletin serves as a guide and provides additional diagnostic info to update the engine oil level displayed on the ICS (Integrated Center Stack) for Grecale Hybrid Vehicles and GranTurismo, GranCabrio, and Grecale Trofeo versions.

These instructions are intended to be applied uniquely only if it is impossible to delete the DTCs related to incorrect engine oil level in ECM ECU (although the amount of engine oil is correct and the applicable procedures indicated in the Workshop Manual have been performed correctly) and/or if the engine oil level shown on the instrument panel of the vehicle cannot be updated.

MODELS:

- Grecale MHEV and Trofeo versions M182 (ALL MY)
- GranTurismo/GranCabrio and Trofeo versions M189 (ALL MY)

POSSIBLE DTC's

The following DTCs in the ECM are relevant for this Technical Information:

P252F-00 - Engine Oil Level Too High

P250F-00 - Engine Oil Level Too Low

PROCEDURE:

Required actions to update the engine oil level displayed on the ICS:

1. Park the vehicle on a flat level surface.
2. Warm up the engine until the engine temp reaches 90°C (194°F)
3. Using the EVO, select ECM ► Base Diagnosis ► search and monitor Variables "3A41 - Engine oil level (Hybrid Vehicles)/0422 – Average engine oil level (Trofeo versions)". Note the current value.

Variable: **3A41 – Engine oil level**
MHEV Engine oil level

Variable: **0422 – Average engine oil level**
Trofeo Average engine oil level

4. Perform a key-off/key-on cycle, wait for 20s and launch the **Engine Oil Level Initialization** routine. If the routine fails, launch it again up to three times. If the outcome is still not successful, go directly to step 6.
5. Check that the oil level is within the following range by reading **RDI 0x3A41 – Oil Level:**

VEHICLE	MIN LEVEL	MAX LEVEL
MHEV	4200 (ml)	4600 (ml)
Grecale Trofeo	7000 (ml)	7400(ml)
GranTurismo/GranCabrio	7500 (ml)	7900 (ml)

6. If the level is within the range, continue with the procedure. Otherwise, add or remove oil until it is in the range prescribed in the table above and go back to step 3.
7. To update the oil level on the instrument panel, warm up the engine until the oil reaches the temperature of 90°C. Refer to RDI 130b – Engine Oil Temperature (MHEV) or 3A54 – Engine Oil Temperature (Grecale/GranTurismo/GranCabrio Trofeo).
8. Monitor Variables 130B - Oil temperature (Hybrid Vehicles)/3A54 - Engine Oil Temperature (Trofeo versions) and wait until the engine oil temperature reaches 90°C (194°F).

Variable: **130B - Oil Temperature**
MHEV Oil temperature

Variable: **3A54 - Engine Oil Temperature**
Trofeo Oil temperature

9. Idle the engine until the oil level on the vehicle display is updated (switch from red bar to white bar) and check that RDI 0x3A41 – Oil Level is within the range of the table above.
10. Clear all ECM DTCs and check whether the engine oil level displayed on the ICS has updated.
11. Read the "3A41 - Engine oil level (Hybrid Vehicles)/0422 – Average engine oil level (Trofeo versions)" Variable again to confirm.

If the engine oil level update procedure is not successful, repeat the procedure after a road test.

Additional Information

Below are the threshold values for “engine oil level too low” (insufficient level) and “engine oil level too high” (excessive level):

A. For Grecale Hybrid models:

- Underfill threshold: 3200 ml (3.38 qt) (associated with engine warning light).
- Overfill threshold: 5200 ml (5.49 qt) (associated with message on Cluster).

B. For Grecale Trofeo models:

- Underfill threshold: 5500 ml (5.81 qt) (associated with message on Cluster).
- Overfill threshold: 8000 ml (8.45 qt) (associated with message on Cluster).

C. For GranTurismo/GranCabrio Trofeo models:

- Underfill threshold: 6000 ml (6.34 qt) (associated with message on Cluster).
- Overfill threshold: 8500 ml (8.98 qt) (associated with message on Cluster).

Warranty reimbursement request

For the operations described in this publication, only the operations listed here will be approved under warranty. Any additional requests will be rectified.

Description	Part Number
Component code	0.20.003
Operation code	0.20.003.9 (0.25 h)

Please do not hesitate to contact us if you have any questions. Best regards,

TECHNICAL SERVICE OPERATIONS