

Document Information

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Vehicles affected: P14: 720S, 720S Spider

Location: Powertrain Engine - Lubrication System

Concern: Smoke from exhaust

Condition: Incorrect oil level measurement parameters or suspected engine oil overfill.

Diagnostic Trouble Codes

N/A

Measure

In the event of smoke from tailpipes on a McLaren 720S, do not add or remove oil from the engine until the steps outlined in this document are completed.

Please note that the reading may also falsely indicate that the oil level is good when the system could have been overfilled. This situation may also be accompanied by smoke from the exhaust.

Care Point: If any Software Updates are necessary please refer to KA-01191 - Super Series (P14) Current Software Platforms to ensure all modules are aligned with the latest platform available.

1. Ensure the Transmission Control Unit (TCU) is on the latest software 14M0999CP.16. If not, please update the module (for information on how to update the module please refer to document '14 F 001 Software Update and Rework Requirements')
2. If the TCU required an update, ensure that the "Engine oil level check calibration" sequence in ADI has been completed

3. Investigate for any external engine oil leaks. If any are found, identify the cause of the leak and rectify it

4. Perform a controlled engine oil drain as per 'SIS DA-RM-05F003-00-001 - Drain/fill - engine oil'

5. Measure and record the amount of engine oil removed as this information may be required by McLaren Technical Support for further investigation if the engine oil level is not achieved

6. Perform a controlled engine oil fill as per 'SIS DA-RM-05F003-00-001 - Drain/fill - engine oil'. Start by filling 5 litres of engine oil initially.

Increase the oil amount inside the engine by filling 0.5 litres at a time until you achieve good oil level indication. Do not fill any more than 8.0 litres of engine oil into the system.

7. Perform a new engine oil level check as per 'SIS DA-RM-05F003-00-002 - Check engine oil level'. (Engine oil temperature must have reached 90° C for correct measurement)

8. Please refer to Condition Matrix table below for next actions to follow:

| CONDITION MATRIX | | |
|---------------------|------------------|--------------------|
| OIL LEVEL | SMOKE Presence | ACTION |
| Incorrect Oil Level | Smoke present | Proceed to Step 9 |
| Correct Oil Level | Smoke present | Proceed to Step 10 |
| Incorrect Oil Level | No Smoke present | Proceed to Step 9 |
| Correct Oil Level | No Smoke Present | Proceed to Step 11 |

9. If a correct engine oil level indication cannot be achieved or is inconsistent, please refer to KA-01224 for further actions.

10. If the engine oil level is correct but smoke from the tailpipe persists the excess oil should be cleared through a vehicle test drive. If the smoke persists after this then contact McLaren Technical Support.

11. If the engine oil level is correct, and there is no further smoke from the exhaust, no further action is required

Attachments

N/A

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