

McLaren Artura Engine Oil Leak Diagnosis Guide - Oil Pump

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Document Information

Location: Powertrain

Topic: McLaren Artura Engine Oil Leak Diagnosis Guide - Oil Pump

Condition: N/A

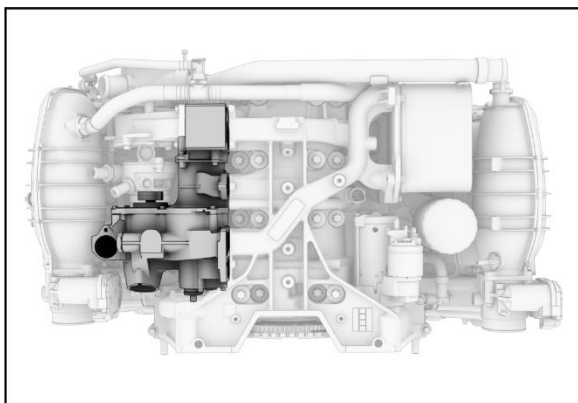
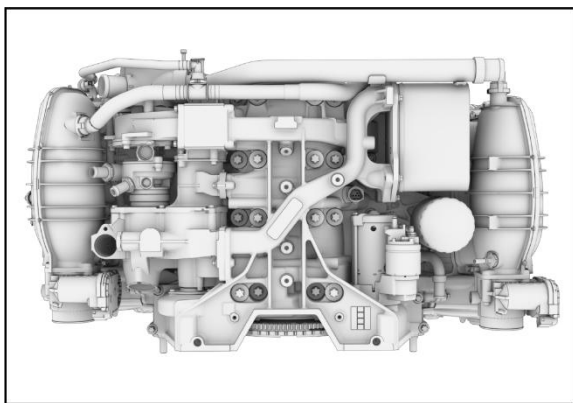
Diagnostic Trouble Codes: N/A

Measure

The engine oil pump on the Artura is wet assembled meaning there could be traces of oil on the oil pump when inspecting.

To determine if the oil found is an active leak or residue from assembly, please follow the steps below:

1. Raise vehicle on ramp as per MSP instructions
2. Remove engine underfloor
3. Capture images prior to any cleaning, clearly showing the leaking area. Label images: "Pre-Cleaning"
4. Take picture of engine number and label image "Engine Number"

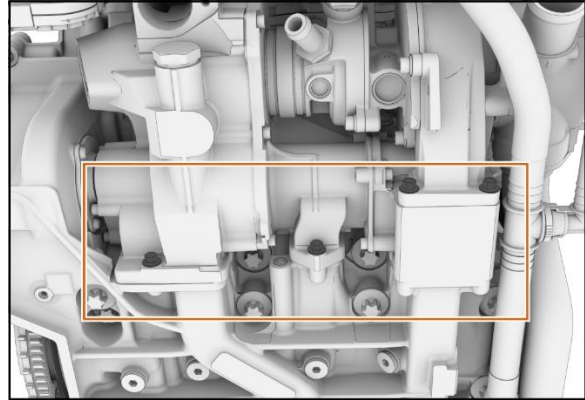
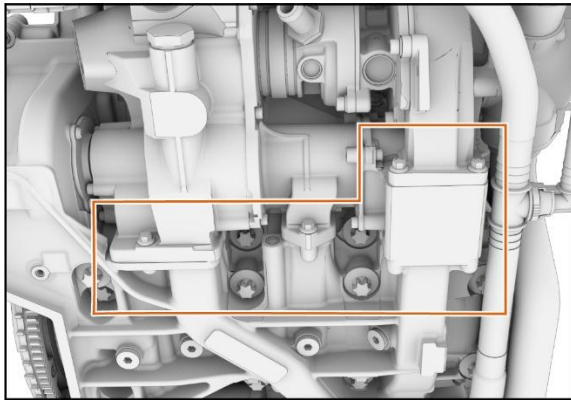


5. Clean area thoroughly using degreaser/solvent
6. Add engine oil dye to the engine - Please refer to latest update of KA-01458 for correct dye and torch to use

Care Point: Do Not use leak detector spray / chalk spray

7. Start engine and run at increased idle speed (3,000 rpm) using engine oil check procedure until procedure is complete (this will ensure that the engine oil temperature reaches 90°C)

8. Turn off engine and allow car to stand for 20 minutes on the ramp in preparation for inspection
9. Inspect engine. Capture images and label images "Cycle 1", clean area again thoroughly, capture images and label images "Post Cycle 1"



Care Point: If there is a clear and active leak after step 9, please stop the warm up cycles and submit a TR with supporting images/video

10. Complete a further warm up/cool down cycle and name the images respectively:

- "Cycle 2" & "Post Cycle 2 (after cleaning)"

Care Point: In case of uncertainty on final assessment, please update TR with supporting images correctly labelled

Care Point: If no leak visible after cycle 2, please leave the vehicle overnight and recheck area for any signs of an oil leak

11. If there is obvious evidence of an oil leak from the oil pump after the 2 cycles please submit a Technical Request with clear pictures showing the leak. If no leak is present, carry out a road test (including EV mode) and recheck for leaks. Capture images and label "Post Road Test" (before cleaning)

Care Point: If no further oil leak is observed, then the initial oil residue found previously is due to excessive oil used in the build process - No further action required

Parts Information

N/A

Attachments

N/A

Repair Time

Steps 1-10

Causal Issue - Oil Leak (Clean/Drive Cycle) check Only

Labour time 3.35 hours

Plus 0.40 for additional cycle 2

Repair validation - No leak found

Labour time 1.81