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Document Information

Location: Powertrain

Topic: Procedure for recovering McLaren Artura engine coolant pump seal

Condition: N/A

Diagnostic Trouble Codes: N/A

Measure

If an engine coolant leak is noted from the expansion chamber of the coolant pump during PDI or after recent rework involving the engine coolant system, follow the guidelines listed below to attempt to stop the coolant leak.

A leak can be caused at the engine coolant pump after the engine coolant has been refilled incorrectly.

The procedure for coolant filling can be found in SIS under -> **Powertrain - Systems / Cooling System / Cooling Service Procedures / HA-RM-06L001-00-001 - Drain/Fill Fluid - Coolant**

If the coolant system has been vacuumed for longer or vacuumed at a higher value than stated in SIS, the coolant pump internal seal can be dislodged, causing a small coolant leak from the expansion chamber of the coolant pump. See **figure 1.1**.



Figure 1.1 – Leak From Coolant Pump Expansion Chamber

To attempt recovery of the internal seal of the coolant pump, pressurise the cooling system with a coolant pressure tester to a **maximum of 1.1 bar** and leave the system pressurised for **4 hours**.

After 4 hours, release the pressure from the system and re-inspect the coolant pump for leaks.

Note some coolant may be visible for the first few minutes of engine running.

Leave the car idling for 20 minutes to confirm the leak has been rectified.

By following these steps the internal seal within the coolant pump reforms to its original shape, therefore rectifying the leak.

If a leak is still present after this procedure, please proceed to open a Technical Request stating the steps in this Knowledge Article have been carried out.

Parts Information

N/A

Attachments

N/A

KA Update Information

N/A

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