



## STAR ONLINE PUBLICATION



**Case Number:** S2009000004 REV. A

**Date:** June 2021

**Symptom/Vehicle Issue:** Oil Leak Between The Engine Oil Cooler/Filter Housing, And The Engine Block.

**Discussion:** A small number of customers may experience an oil leak. Upon further inspection, the leak may be traced to the area between the engine oil cooler/filter housing assembly, and the engine block. Analysis of the returned oil cooler/filter assemblies have all been deemed as Trouble Not Found (TNF). Further investigation into oil leaks in this area have indicated two possible scenarios.

### **Scenario #1, Residual Oil from Engine Manufacturing:**

When the engines are manufactured, the first oil fill is done through an access hole in the oil filter housing assembly. During this first fill, it is possible for residual oil to be spilled, and collect in the gap between the oil cooler and the oil cooler bracket. See (Figure 1).

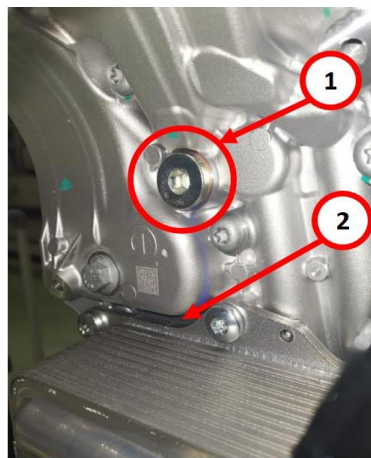


Figure 1.

1. Oil Fill Port

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

**Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found**



## STAR ONLINE PUBLICATION



### 2. Oil Collection area

**NOTE: Do NOT use any hydrocarbon based cleaners like carburetor or brake parts cleaners to clean the residual oil. Damage to the surrounding gaskets can result**

Before replacing any parts, thoroughly clean the area using an isopropyl alcohol or citrus based cleaner. Dry the area using compressed shop air for a minimum of 20 seconds. See (Figure 2).

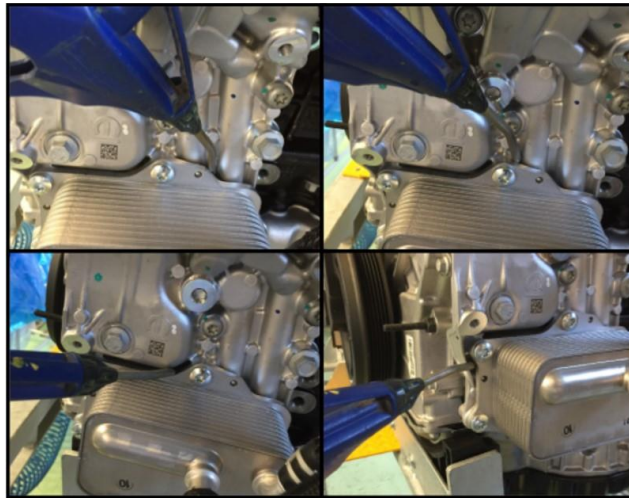


Figure 2.

Once complete, run the engine to see if leak is still present. If the leak is still present, and if the location is verified to be between the oil cooler assembly and the block, refer to Scenario #2.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

**Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found**



## STAR ONLINE PUBLICATION



### Scenario #2, Active Oil Leak from the Oil Cooler/Filter Housing Gasket:

If Scenario #1 has been followed, and the leak is still present, then the issue may be with the gasket between the oil cooler/filter housing and the engine block. Do NOT replace the entire oil cooler/filter housing for a leak from the gasket. The gasket is currently available separately through Mopar. Please refer to the current StarParts catalog for the proper part numbers.

When removing the oil cooler to replace the gasket, you may notice a rough appearance to the machining surface on the engine block. See (Figure 3.). This is a normal characteristic. Please do not replace the engine block or grind down the machined surface in an attempt to make it smooth. While steps are being taken to improve the look of this sealing surface, tests have shown that this has no detrimental effect on the gasket's performance.



**Figure 3.**

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

**Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found**