



Oil In Coolant - Cross Contamination From Oil Cooler - 13L VGT Engines



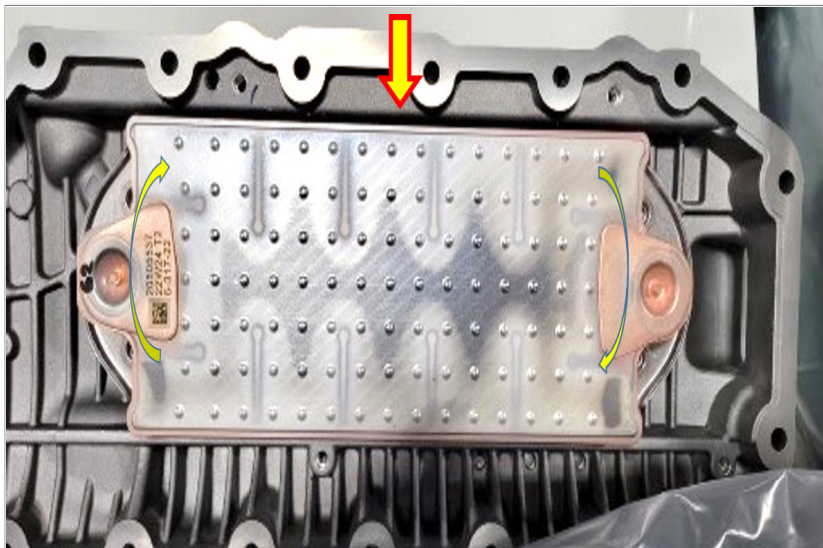
Internal Content

Requested by Denver Effland

13L VGT engines manufactured between January 2020 and August 2022 may experience coolant contaminated with oil due to oil cooler failure. This failure may be due to excess material buildup on the coolant duct cover that results in interference with the oil cooler.

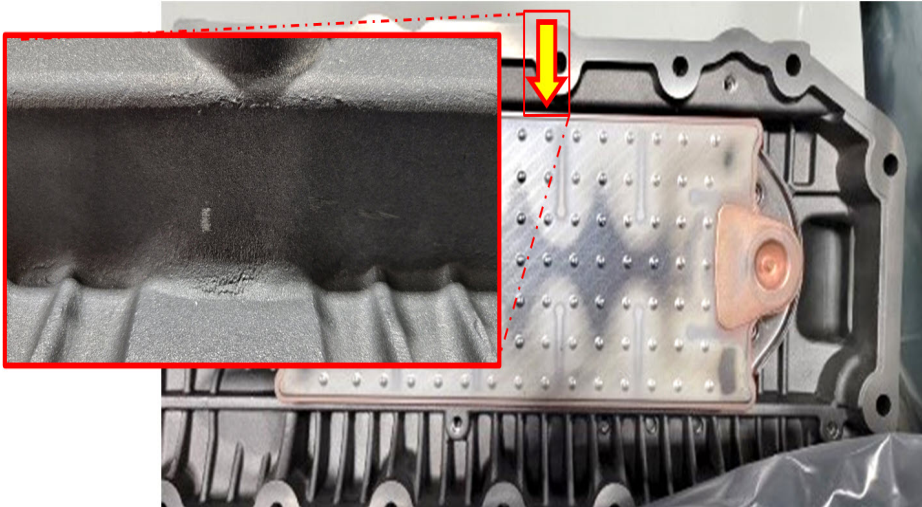
Examples of this issue can be seen below.

Oil Cooler not seating in CDC



Arrow ↓ indicates area of contact for the oil cooler to the Coolant duct cover. The oil cooler rocks back and forth on the contact point to the coolant duct cover.

Oil Cooler not seating in CDC

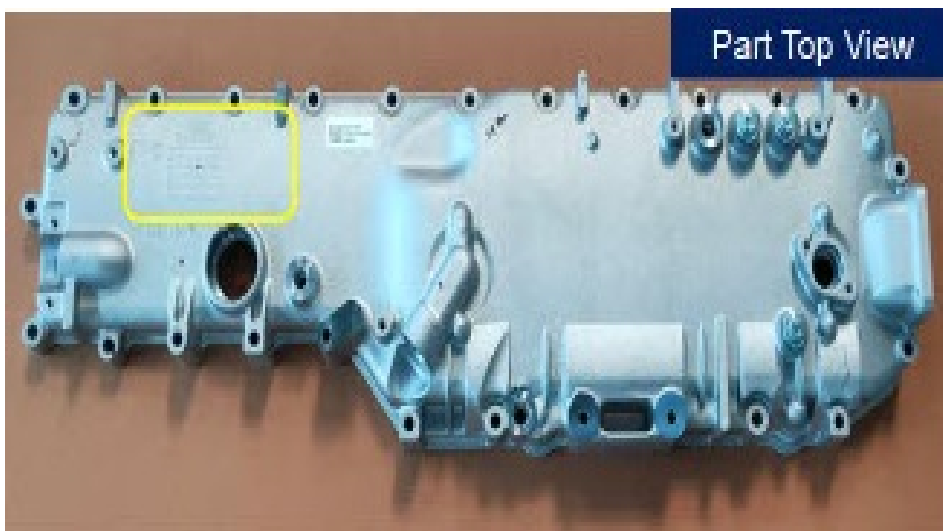


Arrow ↓ indicates area of contact for the oil cooler to the Coolant duct cover.
The contact point to the coolant duct cover is seen visibly when the oil cooler is removed after installation is attempted.

Inspection

Engines potentially affected by this issue will have a casting date between January (1) 2020 and August (8) 2022. **If oil cooler failure is determined to be the cause of coolant contamination**, the casting date of the coolant duct cover should be checked.

The casting date can be located and checked using the picture below as a guide.



Location of casting information

Suspected Part



Meaning:

- 4 dots in 2022
- Casting produced in Apr-22 month

Judgement:
It is Risky part as it is produced before Sep-22 and to be taken out

Good part



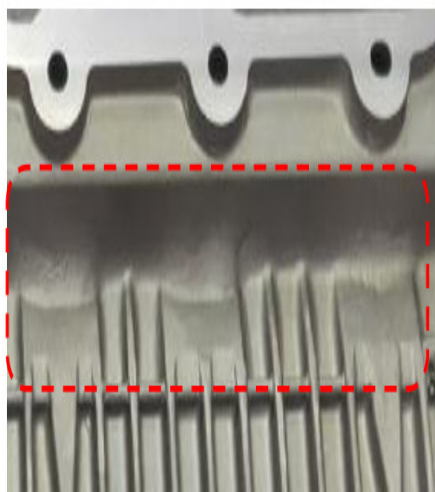
Meaning:

- 1 dot in 2023
- Casting produced in Jan-23 month

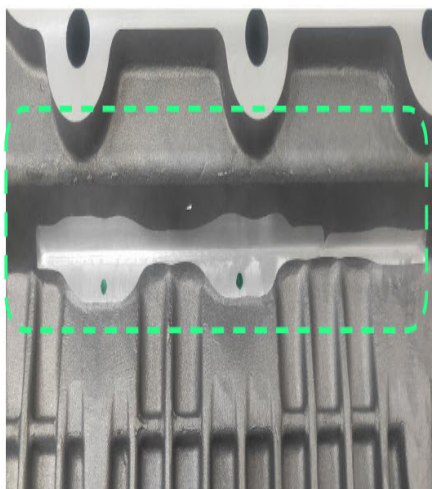
Judgement:
It is Ok as the part produced in or after Sep-22

If the casting date falls within the possible affected range, the location below should be inspected to determine if it may have contributed to the failure.

Suspected part



Good part



Repair

Live UI

If the coolant duct cover's appearance matches the suspected part picture above, **both the oil cooler and the coolant duct cover should be replaced** to prevent future failure.



Tags

[volvo](#)[mack](#)[oil in coolant](#)[oil cooler](#)

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