

Gen 5 DD13 Turbocharger Oil Return Line Cracks

TSB-01-002-DDC

Creation Date: 2025-02-05

Engine or Vehicle Affected:

▶ DD13

General Information

Some Gen 5 DD13 turbocharger oil return lines crack, causing an oil leak. Engineering is requesting additional steps to repair the lines and the return of replaced parts to help understand the root cause of these failures. If repaired, please return the parts directly to Detroit Diesel. This process is only to be performed until April 1, 2025, and only when the customer approves of the additional repair time that may occur.



Fig. 1, Example of a broken turbo oil return line

Parts Table

This section provides technicians with essential details about the parts details.

Table 1, Parts Table

Parts Table		
Part Number	Part Description	Quantity
DDE A4710960842	Turbocharger Mounting Bracket	1
DDE N910105010007	Bolt, Turbocharger Mounting Bracket	2
DDE A4710906341	Turbocharger Support Bracket	1
DDE A0119902301	Bolt, Turbocharger Support Bracket	4
DDE A0309974645	O-Ring, Turbocharger Oil Return Line	1

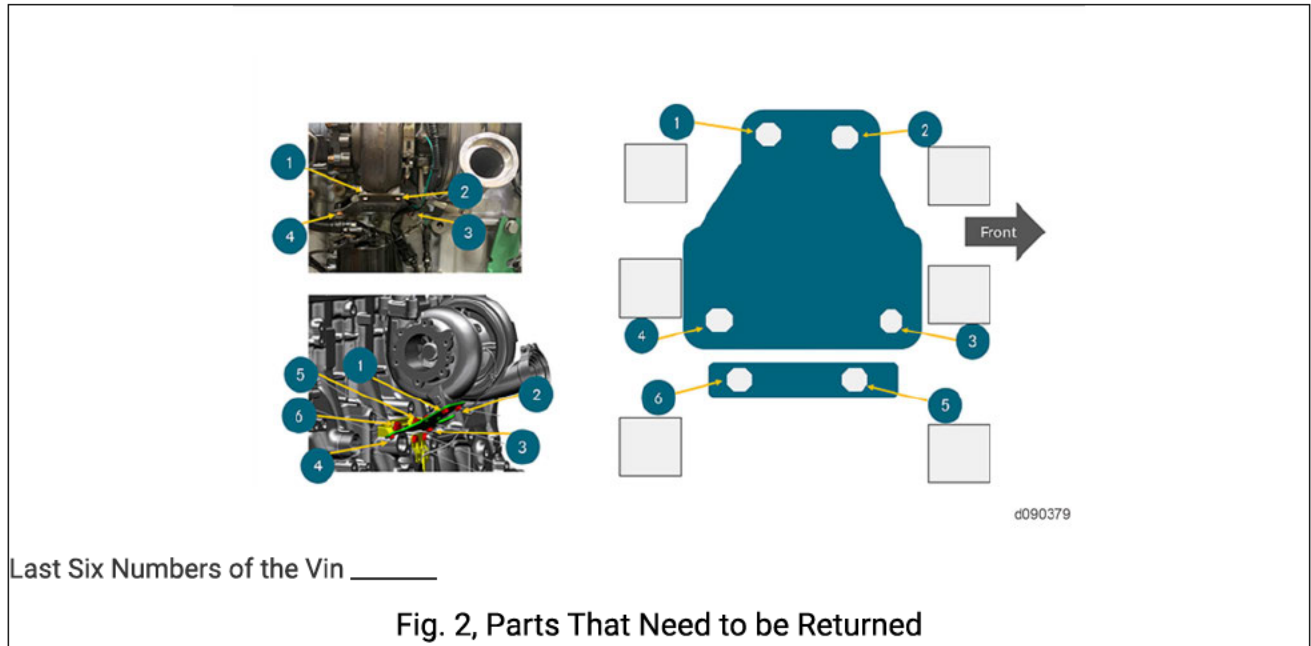
Parts Table		
DDE A5411870080	Gasket, Turbocharger Oil Return Line	1
DDE A4711803520	Oil Return Line, Turbocharger	1

Table 1, Parts Table

REPAIR PROCEDURE

Please return the cracked return line, the turbo mounting bracket, support bracket, and all associated bolts. See instructions below

1. With a paint marker, number the six bolts for the turbo mounting brackets, as shown in the diagram below when applicable.



2. Remove the turbo mounting bracket and support bracket. See in the *DD13 Gen 5 Workshop Manual* (DDC-SVC-MAN-0213).

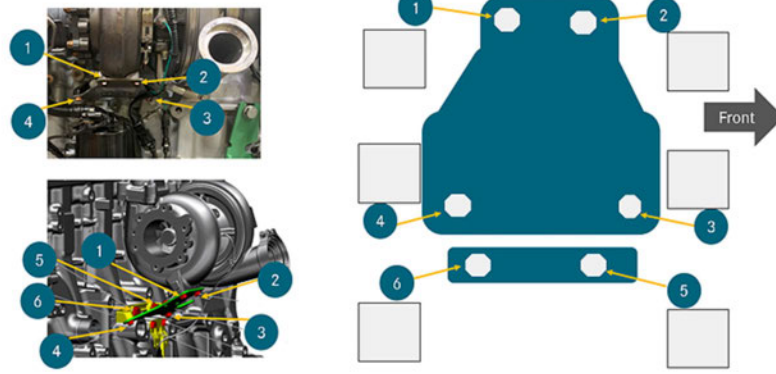
⚠ **Note:** Due to clearance, bolt #4 needs to be removed with a wrench and torqued with a crowfoot socket.

3. When removing the bolts, **note the break-away torque in N·m and document the values** in the boxes in the bracket depicted in the figure 'Parts That Need to be Returned'.

Example for reference only:

- Bolts 1, 2, 3, 4 torque = 30 N·m.
- Bolts 5, 6 Torque = 60 N·m.

4. If the torque is too low and no reading was measured, put an 'L' in the box.
5. If the bolt is missing, put an 'M' in the box.
6. Return the completed document with the parts.



Last Six Numbers of the Vin _____

Fig. 3, Parts That Need to be Returned

7. Install the Turbocharger Mounting Bracket. See in the *DD13 Gen 5 Workshop Manual* (DDC-SVC-MAN-0213).
8. Install the Turbocharger Oil Return Line. See in the *DD13 Gen 5 Workshop Manual* (DDC-SVC-MAN-0213).
9. Once the repair is completed, please return all requested parts directly to Detroit Diesel.

Detroit Diesel Corporation

12200 Telegraph Road

Redford, Michigan 48239

Attention: Return Material Room

DDC UPS Account No. E49591

1st Option

Create a label using the above information.

Please include the worksheet above with the replaced components.

2nd Option

Email DRMC@daimlertruck.com with the following information:

- Repairing outlet address
- Dimensions: Length by Width by Height (in inches)
- Weight of the box in pounds

3rd Option

Follow the normal warranty return process.

Please include the worksheet above with the replaced components.

Warranty

Normal in-warranty procedures apply. Proactive removal of properly functioning parts is not allowed under warranty.

Note :

Component Code / VMRS = 043-004-104, TUBE - OIL DRAIN, TURBOCHAR

Primary Failed Part (PFP) = DDE A4711803520, TUBE - OIL DRAIN, TURBOCHARGE

SRT = 11A-6506B, TURBOCHARGER OIL RETURN LINE WITH BRACKET, R/R, WITH STEAM CLEAN AND REPAIR
VALIDATION

Note:

043-004-104

012-256-523

EAS

REPLACE

Document Number: 0000144945

Topic Publication Date: 2025-02-17