

 Preview Solution CBR-2463-3

13L TC Abnormal Turbocharger Noise - VN (4) - PR (4)

Published 16 April 2025

Valid For

Mack Chassis - PR (4) with 13L TC
Volvo Chassis - VN (4) with 13L TC

The purpose of this CBR is to assist in determining source(s) of suspect abnormal turbocharger noise.

Abnormal Turbocharger Noise

- For Turbochargers making abnormal noise while running follow steps to help diagnosis issue.
 1. Perform leak test on both the exhaust and boost system.
Repair any leaks and confirm if the noise still present after repairs.
 2. Perform **Exhaust Gas Recirculation System, Analysis 2939-08-03-03.**
 - A. Does the test fail?
 - Yes
 - Attach .CSV file to E-Service case. (See bottom of CBR for instructions on how to get a .CSV file)
 - Attach photo of the turbocharger compressor housing clamp (close up and from a distance) see Figure 1.
 - No
 - Attach video of perceived turbocharger noise to E-Service case.

Figure 1

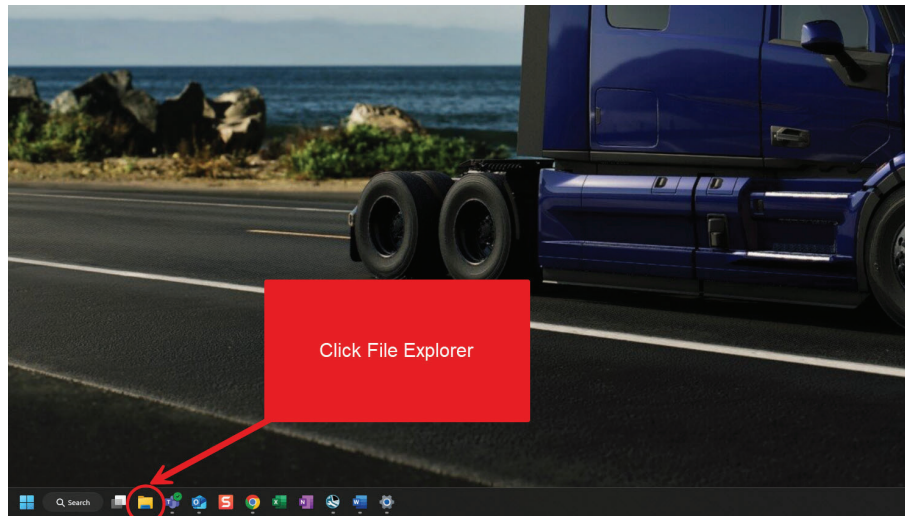


IMPORTANT NOTE: Under no circumstance, **DO NOT** disassemble the turbocharger unless directed by Tech Support through an E-Service case. Disassembly of the turbocharger can potentially result in warranty claim denial.

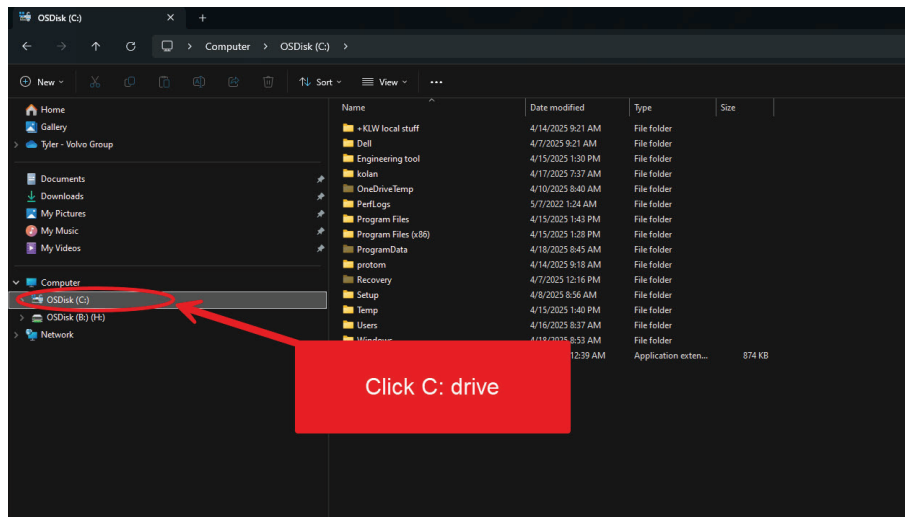
Steps for attaching .CSV file.

Important note: You must finish work before starting this.

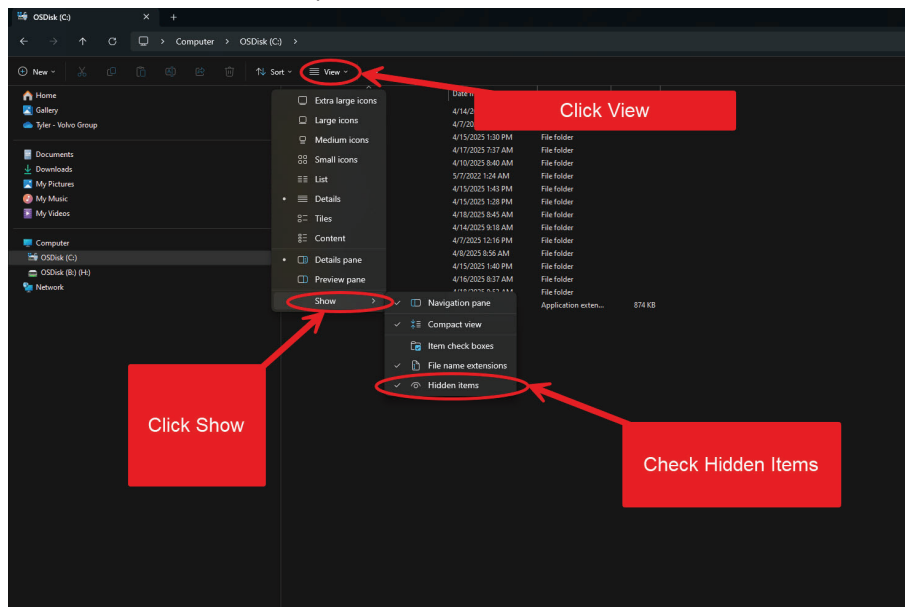
1. Open File Explorer



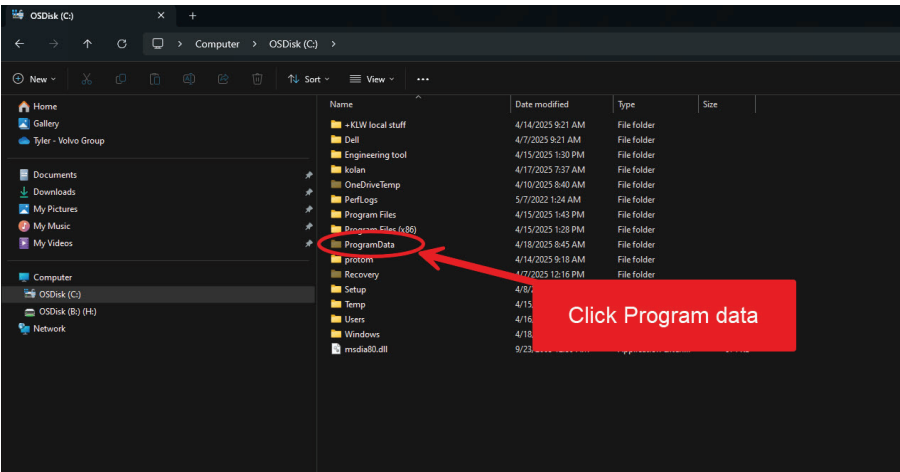
2. Click drop down next to my computer
3. Click on OS (C:)



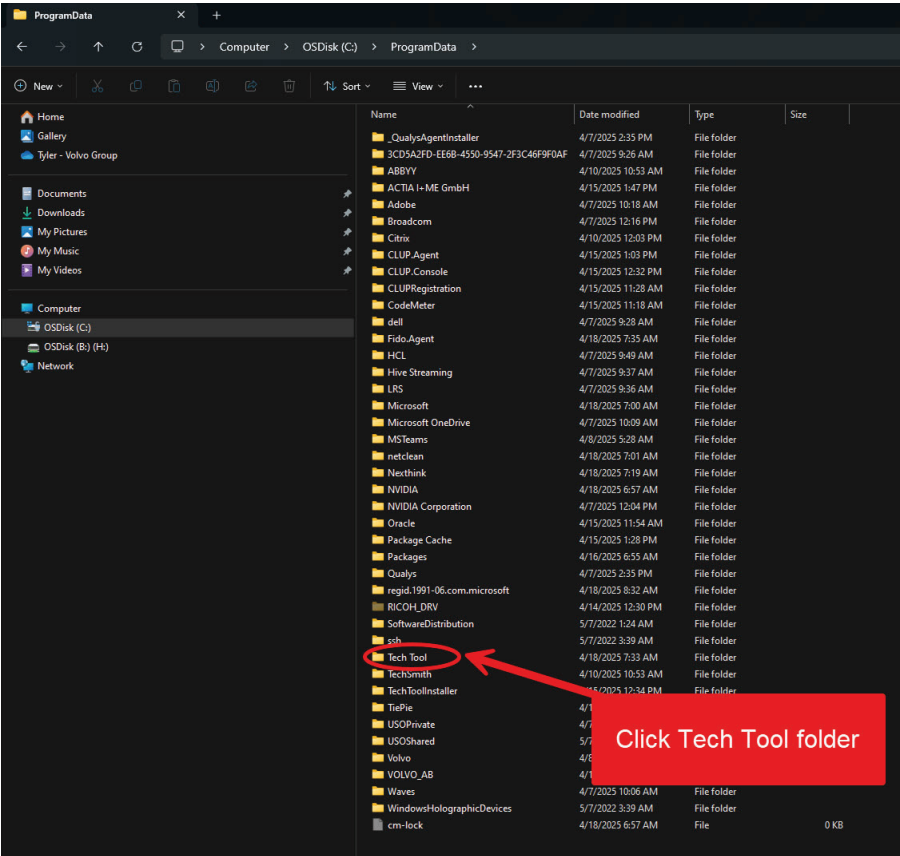
4. At top of tool bar click view tab, go to bottom of drop down and click show, click hidden items.



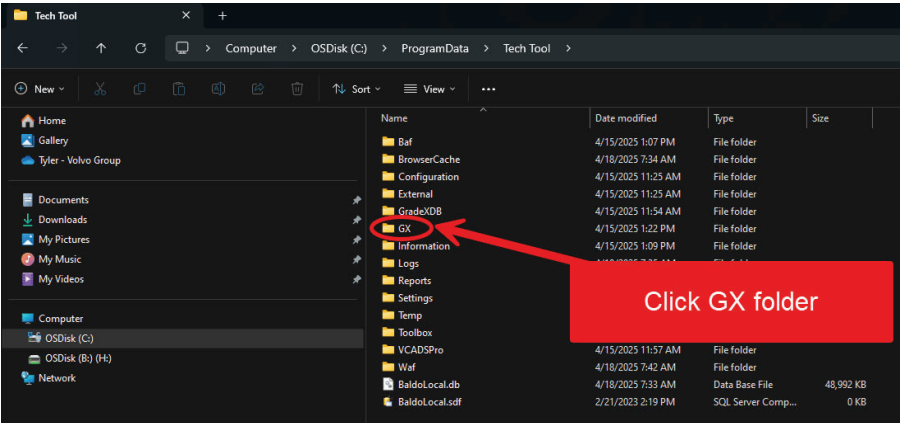
5. Click on ProgramData folder.



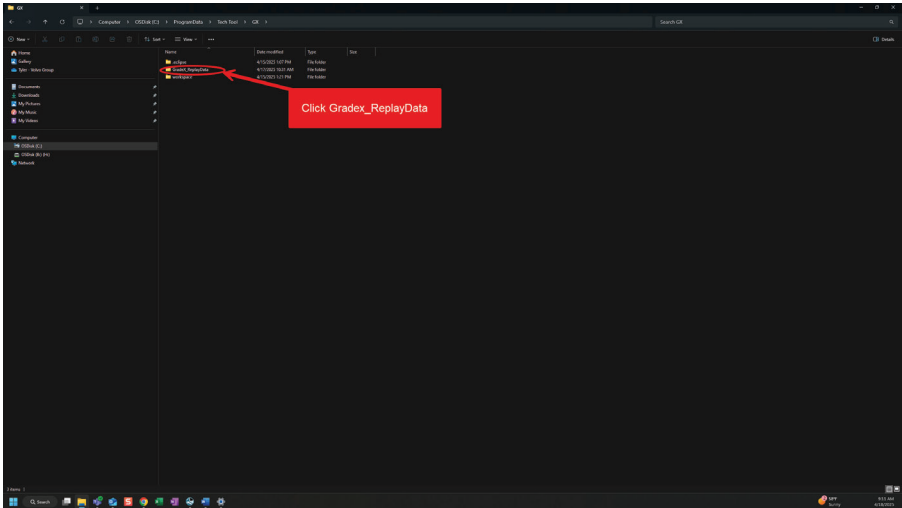
6. Click on Tech Tool folder.



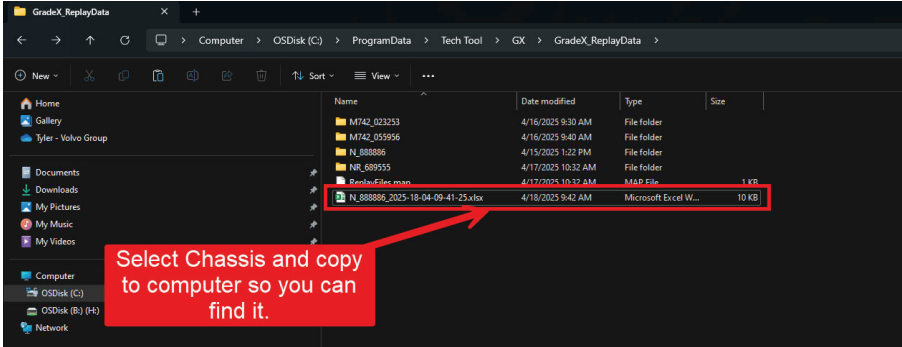
7. Click on GX folder



8. Click GradeX_ReplayData



9. Look for you Chassis Id and last excel file will be your test.



10. Locate where you copied file to and attach to E-Service Case.

Related links and attachments

No links or attachments available



Share
to others that might find it helpful



Feedback
[Give feedback](#)
to help improve the content of this article



2939-08-03-03 Exhaust Gas Recirculation System, Analysis

Simulation

Information >> Conditions >> Execution >> Result

Purpose

Check the function of the exhaust gas recirculation (EGR) system

Components to be tested are:

- EGR Valve
- EGR Cooler

 **Note:** This operation should only be used in the following circumstances

Relevant DTCs: P0234, P0299, P0401, P0402, P0471, P04D9, P1121, P240F

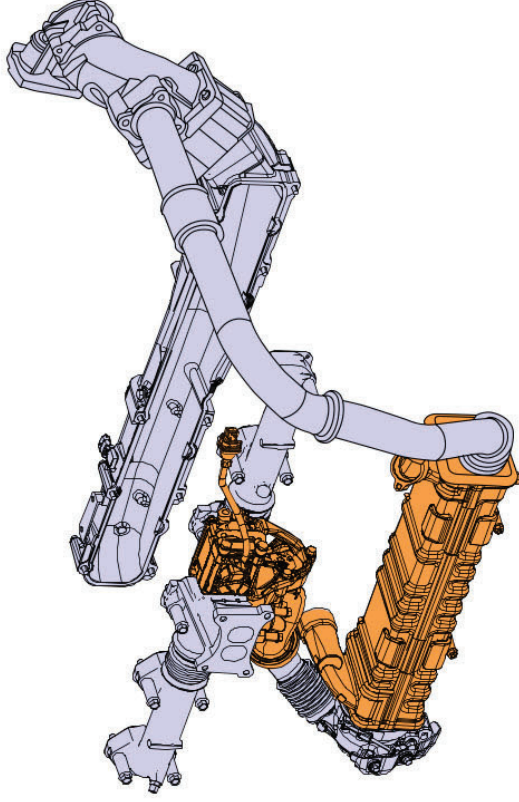
Description

This operation is a self-evaluating test that requires the vehicle to be stationary with engine running in order to evaluate system components

Engine speed, EGR valve and the Back Pressure Device will be commanded to specified ranges during the test

The turbo speed sensor is used as primary parameter for evaluating the EGR system

There are four test phases that take approximately 3 minutes to complete once all the test conditions have been met



The illustration may not correspond exactly to the installed engine

[Continue >](#)

[Cancel](#)