

 Preview Solution CBR-2449-1

Vertical Exhaust Aftertreatment System (EATS) Catalyst Cracking - Trucks Equipped With a Cummins 12L Compressed Natural Gas (CNG) Engine

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Valid For

Mack and Volvo trucks equipped with a Cummins 12L compressed natural gas (CNG) engine

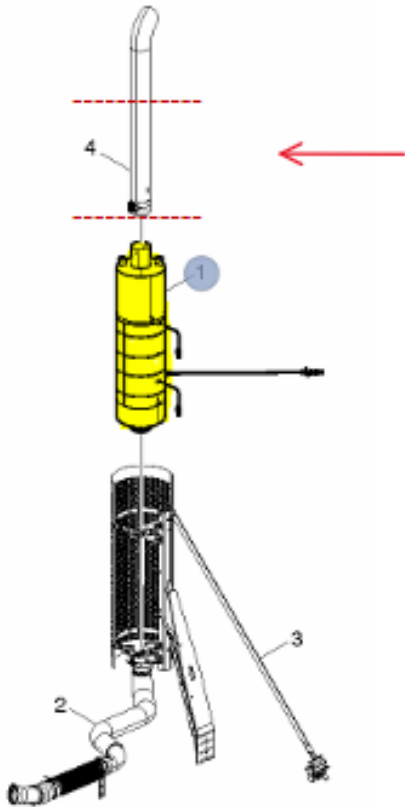
Complaint

Cummins Exhaust Aftertreatment System (EATS) catalysts may experience cracking, which may be attributed to excessive vertical vibration in the exhaust stack. To mitigate this issue, a modification to the exhaust stack length is required.

Corrective Action

To reduce vertical vibration and minimize stress on the catalyst, follow the procedure below to shorten the exhaust stack.

If cracking of Cummins vertical EATS is noticed, replace EATS and remove 18" of stack from bottom (where stack attaches to EATS) (22896071 Only). Vertical EATS cracking is due to vibrations of the unsupported vertical stack.



Required Tools & Materials

- Measuring tape
- Marking tool (paint pen or chalk)
- Cutting tool (saw or torch suitable for exhaust material)
- Deburring tool or file
- Personal Protective Equipment (PPE) (gloves, safety glasses, hearing protection)

Live UI

Procedure

1. Preparation:

- Park the vehicle on a level surface and engage the parking brake.
- Allow the exhaust system to cool completely before beginning work.
- Remove stack from vehicle.
- Wear appropriate PPE.

2. Measurement & Marking:

- Locate the bottom end of the exhaust stack.
- Measure 18 inches from the bottom end and mark a cutting line around the circumference of the stack.

3. Cutting the Exhaust Stack:

- Using the appropriate cutting tool, carefully cut along the marked line.
- Ensure a clean, straight cut to maintain proper exhaust flow and prevent sharp edges.

4. Finishing:

- Use a deburring tool or file to smooth any rough edges from the cut section.

5. Final Inspection & Testing:

- Verify that the modified exhaust stack is secure and angled slightly outward from the cab to direct exhaust away from the vehicle.
- Start the engine and inspect for any exhaust leaks.
- Monitor the vehicle for any improvements in vibration levels and catalyst integrity over time.

Related links and attachments

No links or attachments available



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