

Part 573 Safety Recall Report

24V-741

Manufacturer Name : Volvo Trucks North America

Submission Date : OCT 03, 2024

NHTSA Recall No. : 24V-741

Manufacturer Recall No. : RVXX2408



Manufacturer Information :

Manufacturer Name : Volvo Trucks North America

Address : 7900 National Service Road
Greensboro NC 27409

Company phone : 800 528 6586

Population :

Number of potentially involved : 2,098

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2022-2024 Volvo VN

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : The recall population is defined by specific vehicles equipped with Cummins diesel engines and a specific version vehicle electronic control unit. Trucks built between 2021-01-04 to 2024-01-16, Volvo MY 2021-2025 VN 2098 units

Production Dates : JAN 04, 2021 - JAN 16, 2024

VIN Range 1 : Begin : 4V4N39TG1NN294355 **End :** 4V4N39TG6RN636825 ☒ Not sequential

Description of Defect :

Description of the Defect : Volvo Heavy Duty vehicles built with Cummins diesel engines may not be compliant with FMVSS Standard 124, S4.1.

The backup accelerator pedal signal is inverted, which could allow 0% pedal demand to be interpreted as 100%, This can only occur if Vehicle Controller Area Network (CAN) Communications are interrupted and you've gone to back up communications mode and vehicle has gone into limp home mode and torque output is limited to 50 percent.

FMVSS 1 : 124 - Accelerator control systems

FMVSS 2 : NR

Description of the Safety Risk : In the event of a Vehicle Controller Area Network (CAN) failure the throttle signal to the engine would not return the engine to idle increasing the risk of a crash.

Description of the Cause : During introduction of a new vehicle electronic control unit, controller area network back up response was never tested and

Identification of Any Warning that can Occur : There are no warnings associated with this issue.

Involved Components :

Component Name 1 : Main Software

Component Description : Electronic Control Unit

Component Part Number : 23929566

Supplier Identification :

Component Manufacturer

Name : Volvo Trucks

Address : 7900 National Service Road
Greensboro North Carolina 27409

Country : United States

Chronology :

September 11, 2024: Product engineering while testing for a new product introduction identified issues related to throttle response related to controller area network failures. This has only been identified in testing never in production.

September 17, 2024: Product Safety Evaluation Committee informed of a potential issue involving throttle pedal response related to controller area network failures and back up mode and an investigation is opened.

September 24, 2024: Product Compliance Committee meets and reviews finding and recommends that this be escalated to the Product Safety Committee as a potential non-compliance.

September 26, 2024 Product Safety Committee meets and determines that a product non-compliance exists and vehicles will be recalled.

October 3, 2024 DIR report filed with NHTSA.

There have been no warranty claims, field reports, accidents or injuries reported with this issue.

Description of Remedy :

Description of Remedy Program : Vehicles will be recalled and the vehicle electronic control unit main software will be replaced.
Reimbursement for the recall will be covered by Manufacturer's Reimbursement Plan on file with NHTSA.

How Remedy Component Differs from Recalled Component :	The remedy component has corrected main software installed. Main Software, Electronic Control Unit, 23929566.
Identify How/When Recall Condition was Corrected in Production :	All vehicles impacted were put on hold Sept 27 2024 and vehicles on hold will be corrected before being released.

Recall Schedule :

Description of Recall Schedule :	Dealer notification will begin on or before October 7, 2024 and owner notification will begin on or before November 22, 2024
Planned Dealer Notification Date :	OCT 07, 2024 - OCT 07, 2024
Planned Owner Notification Date :	NOV 22, 2024 - NOV 22, 2024

* NR - Not Reported