

Part 573 Safety Recall Report

23V-793

Manufacturer Name : Volvo Trucks North America

Submission Date : JAN 29, 2024

NHTSA Recall No. : 23V-793

Manufacturer Recall No. : RVXX2313



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 : 858

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2023-2024 Volvo VN

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : The recall population is determined by vehicles built within the specified impacted time frame. The start date is based on the introduction of a new pedal into production.

Production Dates : OCT 24, 2022 - NOV 20, 2023

VIN Range 1 : Begin : 4V4NC9TH5PN342077 **End :** 4V4NC9TH3RN660783 ☒ Not sequential

Description of Noncompliance :

Description of the Noncompliance : In the event that the accelerator position sensor ground wire becomes disconnected, the default operating voltage range on the engine rationality check timing for return to idle is non-compliant with FMVSS 124 S5.2 and S5.3.

FMVSS 1 : 124 - Accelerator control systems

FMVSS 2 : NR

Description of the Safety Risk : If the accelerator position sensor ground wire were to become disconnected, the engine would operate out of compliant return to idle time target, where there could be loss of control of the vehicle which could result in a risk of crash. There have been no warranty claims, field or service reports reported for this issue.

Description of the Cause : When Pin B is open circuit, the pedal defaults to a high state of 3.8V. This is within the operating voltage of the engine and is read as 100% driver demand. On the previously introduced pedal, the OC voltage was 5V. This is outside of the operating range and is read as an error.

Identification of Any Warning that can Occur : The driver may experience an increased delayed return to engine idle.

Involved Components :

Component Name 1 : Accelerator Pedal

Component Description : Pedal Assy

Component Part Number : 24365442

Supplier Identification :**Component Manufacturer**

Name : Volvo Trucks North America

Address : 7900 National Service Road
Greensboro North Carolina 27409

Country : United States

Chronology :

October 26, 2023, Investigation opened by Engineering, as a result of a possible testing failure.

November 17, 2023, The Product Compliance Committee recommends that the issue be brought to the Product Safety Committee as a potential product safety defect/regulatory non-compliance.

November 20, 2023, The Product Safety Committee meets and decides that a product safety defect/regulatory non-compliance exists.

Description of Remedy :

Description of Remedy Program : Vehicles will be recalled and throttle pedals will be replaced and new software will be installed on the vehicle. Reimbursement for the recall will be covered by Manufacturer's Reimbursement Plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : Volvo Part Number 24709665, Accelerator Pedal, Vendor Engines and Software 24710381 will be installed on vehicles in the field. This remedy, meets timing requirements for engine return to idle MVSS 124.

Identify How/When Recall Condition was Corrected in Production : December 19, 2023 Volvo Part Number 24709665, Accelerator Pedal, Vendor Engines and Software 85167720 installed on impacted vehicles at our factories.

Recall Schedule :

Description of Recall Schedule : Dealer notifications will begin on November 27, 2023, and owner notifications will begin on or before January 21, 2024.

Planned Dealer Notification Date : NOV 27, 2023 - NOV 27, 2023

Planned Owner Notification Date : JAN 21, 2024 - JAN 21, 2024

* NR - Not Reported