

Part 573 Safety Recall Report

20V-536

Manufacturer Name : Volvo Trucks North America**Submission Date :** SEP 02, 2020**NHTSA Recall No. :** 20V-536**Manufacturer Recall No. :** RVXX2004**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 : 15,156

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2020-2021 Volvo VAH, VHD, VNL, VNR

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Basis for recall population: The population of vehicles is still under review by Volvo and Ljunghäll s.r.o. The dates provided are preliminary and based on what is known at this time (defective material came from two production lots of casted material forged at Ljunghäll s.r.o. Czech Republic facility in fall 2019 with earliest estimated use of September 2, 2019 at Volvo's vehicle manufacturing facility and latest use of August 27, 2020 when the recall determination was made. This report will be supplemented with the final scope once it is available.

Difference between recalled and non-recalled vehicles: The recall products may contain a casting defect (i.e. a crack), where the non-recalled vehicles will have pedal plates that are not suspect as having a casting defect (i.e. crack).

The preliminary number of affected vehicles is 15,156 vehicles. The pedal plate part number is 82754992. Ones that are of concern would have certain manufacturing date codes stamped in the pedal plate. This report will be supplemented with the date codes when available.

The make, models, and model years of the preliminary, scope is certain 2020 and 2021 Volvo VAH, VHD, VNL, and VNR model vehicles manufactured from September 2, 2019 through August 27, 2020.

Production Dates : SEP 02, 2019 - AUG 27, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Description of Defect :

Description of the Defect : The die cast pedal plate may have a casting process issue that can result in failure of the pedal plate at one of three attachment ears that support the brake pedal shaft.

FMVSS 1 : 121 - Air brake systems

FMVSS 2 : NR

Description of the Safety Risk : If the attachment ear fails and the brake pedal shaft works its way out of one of the two other attachment holes, the brake pedal may dislodge, making the brake pedal inoperable. An inoperable brake pedal presents a risk of a vehicle crash.

Volvo has not received reports of vehicle crashes associated with this condition. Volvo is taking this voluntary proactive measure to protect our customers, their employees, and all road users.

Description of the Cause : Casting process issue when forming the part.

Identification of Any Warning that can Occur : The brake pedal will be loose - side to side movement, which may be felt by the driver.

Involved Components :

Component Name 1 : Pedal Plate

Component Description : Plate that mounts to the bulkhead which is the mounting point of the brake pedal

Component Part Number : 82754992

Supplier Identification :**Component Manufacturer**

Name : Ljunghäll s.r.o.

Address : Vrchovská 1813

Čáslav FOREIGN STATES 28601

Country : Czech Republic

Chronology :

July 24, 2020 NHTSA notified Volvo Group North America's Regulatory Affairs department of a non-compliance with S.6 of FMVSS121, Air brake Systems. S.6 Conditions states that the requirements of S5 shall be met by a vehicle when it is tested according to the conditions set in this S6, without replacing any brake system part or

making any adjustments to the brake system except as specified. The regulation was not met as the pedal plate failed, which prevent the compliance from being completed.

July 24, 2020 Volvo Group North America's Regulatory Affairs opens investigation.

July 28, 2020 Conference call between Volvo and NHTSA (Office of Vehicle Safety Compliance and Office of Defect Investigations) to share information, coordinate review of vehicle and removal of components, handling and analysis of removed parts etc.

July 28 – August 25, 2020 Investigation which included removal and analysis of failed part, identification of additional parts in Volvo's manufacturing facility, root cause analysis by Ljunghäll s.r.o, Volvo, and independent professional analysis firm, performance testing and analysis to better understand failure mode etc. .

August 27, 2020 Volvo Group North America Product Safety Committee meets and determines a safety-defect exist.

September 2, 2020 Volvo submits defect report to NHTSA and informs that a voluntary safety recall will be performed to address suspect vehicles.

There are no warranty claims, property damage claims, consumer complaints or field reports with the exception of the NHTSA non-compliance report at the time of this filing.

Description of Remedy :

Description of Remedy Program : The pedal plates will be inspected and replaced if required. Pre-notification remedies will be addressed according to Volvo Plan on file with NHTSA.

How Remedy Component Differs from Recalled Component : The remedy component does not contain the defect (i.e. a crack).

Identify How/When Recall Condition was Corrected in Production : August 27, 2020. Parts and vehicles are being inspected for a visual crack by Ljunghäll s.r.o, and Volvo. Ones with a visual crack are being rejected and isolated. Total number of inspected pedal plates exceeds 2,000 with a total of 5 parts being identified with the defect in total (4 found at Volvo's production facility and 1 on the NHTSA test vehicle).

Recall Schedule :

Description of Recall Schedule : A safety recall alert will be released to dealers on September 11, 2020. Owners will be notified by October 30, 2020

Planned Dealer Notification Date : SEP 11, 2020 - SEP 11, 2020

Planned Owner Notification Date : OCT 30, 2020 - OCT 30, 2020

* NR - Not Reported