

Part 573 Safety Recall Report

20V-390

Manufacturer Name : Daimler Trucks North America, LLC**Submission Date :** APR 01, 2021**NHTSA Recall No. :** 20V-390**Manufacturer Recall No. :** FL-855**Manufacturer Information :**

Manufacturer Name : Daimler Trucks North America, LLC

Address : 4747 N. Channel Avenue

Portland OR 97217-3849

Company phone : 800-745-8000

Population :

Number of potentially involved : 164,326

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2017-2021 Freightliner Cascadia

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : Cascadia vehicles equipped with modulator valve part number WAB472 196 025 0, built within the suspect build dates. Vehicles built outside the suspect build dates have painted modulator valves.

Production Dates : MAR 08, 2016 - JUN 30, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : On certain vehicles, chemical corrosion could affect the functionality of the single brake modulator valve, which may result in slow release timing of brakes on the affected side. Regular service brakes are unaffected.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A slow release of the brake on one side during an active brake request (ie. automatic braking events) could lead to a brake pull resulting in a sudden change in vehicle direction due to uneven braking on the front axle increasing the risk of a motor vehicle crash.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : SOLENOID ABS MODULATOR VALVE

Component Description : Solenoid, ABS Modulator Valve, Quick Release

Component Part Number : WAB472 196 025 0

Supplier Identification :

Component Manufacturer

Name : Wabco USA LLC

Address : NR

NR

Country : NR

Chronology :

May 2019, DTNA received a report of a vehicle pulling to the right, due to an unknown cause, during a brake event. Upon repairing the vehicle, the dealer was able to isolate the failure to the right single modulator valve. May 2019-July 2019, DTNA performed a preliminary population and warranty seek. Warranty indicated 6 claims of a vehicle pull event during an external brake request, where 3 claims were from a single customer. DTNA had requested parts to be returned for further review. July 2019, DTNA notified NHTSA Office of Defects Investigation (ODI) of an ongoing investigation relating to brake pull during an active brake request. August 2019, DTNA received the returned parts and began an electrical and functional test. Testing indicated parts were within specification. During a functional evaluation, a pressure differential in air release timing was observed. The parts were shipped to the supplier for component breakdown and further evaluation. August – September 2019, Supplier evaluated the returned parts and found blockage of the inlet solenoid from magnesium chloride corrosion deforming the O-ring. October 2019, DTNA and supplier began reviewing vehicle routes and chemical wash processes, with ongoing corrosion testing with magnesium chloride and requests to the field for additional returned parts. 34 valves returned for review from single customer. Failed valves appear to be isolated to only the right valve and a single route. November 2019, DTNA shared an update of the ongoing investigation with NHTSA ODI, including the low claim rate. While the investigation continued, the modulator valves in production vehicles were spaced away from the frame rails to potentially reduce opportunity of corrosion. January 2020, DTNA provided a status update to NHTSA ODI on testing to understand detectability and severity. corrosion testing and analysis continued by DTNA and supplier.

Description of Remedy :

Description of Remedy Program : Affected vehicles will receive a new valve. Repairs will be released in phases based on age and locations of the vehicle and performed by Daimler Trucks North America authorized service facilities. Details of the reimbursement plan will be included in the owner's notification letter. September 1, 2020, DTNA amended 573 filing to include phase release plan for repairing of FL855.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Customer notification will be made by first class mail using Daimler Trucks North America records to determine the customers affected.

Planned Dealer Notification Date : AUG 30, 2020 - AUG 30, 2020

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

* NR - Not Reported