

# Part 573 Safety Recall Report

# 22V-817

**Manufacturer Name :** Daimler Trucks North America, LLC**Submission Date :** NOV 03, 2022**NHTSA Recall No. :** 22V-817**Manufacturer Recall No. :** FL-958**Manufacturer Information :****Population :**

Manufacturer Name : Daimler Trucks North America, LLC

Number of potentially involved : 218,147

Address : 4747 N. Channel Avenue

Estimated percentage with defect : 1 %

Portland OR 97217-3849

Company phone : 800-745-8000

**Vehicle Information :**

Vehicle 1 : 2017-2023 Freightliner Cascadia

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Only certain Cascadia vehicles equipped with painted modulator valves and Adaptive Cruise Control (ACC) technology are included in this recall.

Production Dates : MAR 08, 2016 - JUN 18, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 2 : 2020-2023 Western Star 49X

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Only certain vehicles equipped with painted front axle modulator valves and Adaptive Cruise Control (ACC) technology are included in this recall.

Production Dates : AUG 12, 2019 - MAR 07, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 3 : 2020-2022 Freightliner Business Class M2

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Only certain vehicles equipped with painted front axle modulator valves and Adaptive Cruise Control (ACC) technology are included in this recall.

Production Dates : APR 01, 2020 - DEC 01, 2021

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 4 : 2021-2023 Western Star 47X

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Only certain vehicles equipped with painted front axle modulator valves and Adaptive Cruise Control (ACC) technology are included in this recall.

Production Dates : JUL 14, 2020 - MAR 22, 2022

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 5 : 2021-2022 Western Star 57X

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Only certain vehicles equipped with painted front axle modulator valves and Adaptive Cruise Control (ACC) technology are included in this recall.

Production Dates : AUG 20, 2020 - DEC 20, 2021

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 6 : 2021-2021 Freightliner 108 SD

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Only certain vehicles equipped with painted front axle modulator valves and Adaptive Cruise Control (ACC) technology are included in this recall.

Production Dates : JUN 25, 2020 - JUL 13, 2020

VIN Range 1 : Begin : NR End : NR  Not sequential

Vehicle 7 : 2022-2022 Freightliner 114SD

Vehicle Type :

Body Style :

Power Train : NR

Descriptive Information : Only certain vehicles equipped with painted front axle modulator valves and Adaptive Cruise Control (ACC) technology are included in this recall.

Production Dates : NOV 01, 2021 - DEC 01, 2021

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 brake modulator valve, which during an Adaptive Cruise Control (ACC) braking event may result in full system pressure applied to one front wheel end causing brake pull from differential in brake force. Regular service brakes are unaffected.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A full system pressure applied to one front wheel end 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 : Driver's may get an ABS light prior to complete valve contamination.

**Involved Components :**

Component Name 1 : Single ABS Modulator Valve

Component Description : Quick Release Pneumatic Valve

Component Part Number : WAB472 196 037 0, WAB472 196 025 0

**Supplier Identification :****Component Manufacturer**

Name : ZF CV Systems North America LLC

Address : 1220 Pacific Dr

Auburn Hills Michigan 48326

Country : United States

**Chronology :**

In 2020, DTNA recalled unpainted brake modulator valves due to possible corrosion and implemented a remedy of painted valves. On September 14, 2022, DTNA received two reports of vehicle pull during an Adaptive Cruise Control (ACC) event from a single isolated customer with the painted valves. The first report mentioned about two cases of unintended brake pull to the left side, while the second mentioned one case of unintended brake pull to the right side. The dealer was able to isolate the failure to the painted steer single

modulator valve after repairing the vehicle. The reports all center around vehicles from one limited geographic area. In or around that time, DTNA promptly opened an investigation to determine the scope of the issue. Additionally, DTNA promptly analyzed the failed parts and found debris associated with corrosion. Around the same time, DTNA conducted a warranty seek and was unable to find claims alleging brake pull events caused by subject valve corrosion. However, as part of its due diligence, DTNA worked with customers in various locations starting in early October 2022 to randomly select parts to inspect. 36 valves were returned from various parts of the east salt belt region in Canada and the United States and shipped to the supplier for further evaluation. Corrosion testing results on 5 trucks (2 different customers) found through late October 2022 revealed varying degrees of corrosion build up on the valves installed on trucks operating in the aggressive salt belt region of South East Canada (Quebec). Around the same time, DTNA received corrosion testing results on valves installed on trucks based in the US's aggressive salt belt region (Maine and New York), and there was some level of corrosion found. On or about late October and early November, DTNA decided to recall in Canada where corrosion was first observed and then in the US where less severe corrosion was later found.

To be continued

## Description of Remedy :

Description of Remedy Program : Affected vehicles will receive two front anodized modulator valves (one each for the left and right). Repairs will be released in phases based on locations of the vehicle and repairs will be performed by Daimler Trucks North America authorized service facilities. Customer notification will be done by first class mail using Daimler Trucks North America records to determine the customers affected. Daimler Truck North America shall be offering a refund for owner-paid repairs covered by this recall if the repair was performed prior to the date indicated in the reimbursement plan, which will be posted with owner's notification letter. Owners are directed to seek reimbursement through authorized deal.

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 : DEC 30, 2022 - DEC 30, 2022

Planned Owner Notification Date : DEC 30, 2022 - DEC 30, 2022

\* NR - Not Reported