Part 573 Safety Recall Report 23V-073

Manufacturer Name : Daimler Trucks North America, LLC
Submission Date : FEB 21, 2023
NHTSA Recall No. : 23V-073
Manufacturer Recall No. : FL966

NHTSA
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

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 : 70,167
Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2017-2023 Freightliner Cascadia
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style :
Power Train : NR
Descriptive Information : Vehicles equipped with system-initiated brake features of Roll Stability Control and Electronic Stability Control, but not equipped with Adaptive Cruise Control (ACC) are recalled for a risk that valve corrosion could cause a sudden brake pull.
Production Dates : JUN 28, 2016 - MAR 28, 2022
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 : 2022-2023 Western Star 47X
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style :
Power Train : NR
Descriptive Information : Vehicles equipped with system-initiated brake features of Roll Stability Control and Electronic Stability Control, but not equipped with Adaptive Cruise Control (ACC) are recalled for a risk that valve corrosion could cause a sudden brake pull.
Production Dates : MAY 26, 2021 - MAR 26, 2022
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 3 :	2021-2023 Western Star 49X
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	
Power Train :	NR
Descriptive Information :	Vehicles equipped with system-initiated brake features of Roll Stability Control and Electronic Stability Control, but not equipped with Adaptive Cruise Control (ACC) are recalled for a risk that valve corrosion could cause a sudden brake pull.
Production Dates :	SEP 22, 2020 - MAR 29, 2022
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 4 :	2022-2022 Freightliner 114SD
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	
Power Train :	NR
Descriptive Information :	Vehicles equipped with system-initiated brake features of Roll Stability Control and Electronic Stability Control, but not equipped with Adaptive Cruise Control (ACC) are recalled for a risk that valve corrosion could cause a sudden brake pull.
Production Dates :	NOV 09, 2021 - NOV 10, 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 external braking event (including Roll Stability Control or Electronic Stability Control, but not including driver-initiated braking) may result in full system pressure applied to one front wheel end causing a brake pull differential in braking 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 system 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 :	Drivers may observe an ABS malfunction light prior to complete chemical corrosion contamination of the modulator valve.

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 Group
Address :	12001 Tech Center Drive Livonia Michigan 48150
Country :	United States

Chronology :

Starting in or around September 2022, based upon information gleaned from a different population of vehicles (those equipped with ACC), DTNA investigated whether non-ACC-equipped vehicles could have similar brake pull events. Initial indications, testing, and engineering judgment were that they would not. However in late October 2022, DTNA received a first indication from a driver that a vehicle in this population of vehicles suffered a brake pull. This conflicted DTNA's indication that this population would not be affected by brake pulls, so in late October 2022, DTNA expanded its investigation, including interviewing drivers and running further tests.

On February 6 2023, DTNA received the first corroboration, a test result under controlled conditions, indicating a possibility of a sudden unexpected brake pull during rare conditions within ESC and RSC events, depending on a number of other factors including environment, speed, driving conditions, and level of valve blockage.

Despite the fact that DTNA has no evidence of field events other than the one driver in October 2022 asserting it happened, and despite the fact that the brake pull differential was not determined to the same degree as was reported during an ACC event, on February 6, 2023, out of abundance of caution, DTNA decided to initiate a new voluntary safety recall to campaign all vehicles equipped with painted and unpainted front brake modulator valves, covering the separate population that are not equipped with ACC.

On February 16, 2023, DTNA reviewed records and amended the population.

On February 20, 2023, DTNA reviewed records, and finalized the population based on the best-known domicile country information.

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 :	APR 10, 2023 - APR 10, 2023
Planned Owner Notification Date :	APR 10, 2023 - APR 10, 2023

* NR - Not Reported