

Part 573 Safety Recall Report

24V-571

Manufacturer Name : Daimler Trucks North America, LLC**Submission Date :** JUL 31, 2024**NHTSA Recall No. :** 24V-571**Manufacturer Recall No. :** F1007**Manufacturer Information :****Population :**

Manufacturer Name : Daimler Trucks North America, LLC

Number of potentially involved : 3,421

Address : 4747 N. Channel Avenue

Estimated percentage with defect : 1 %

Portland OR 97217-3849

Company phone : 800-745-8000

Vehicle Information :

Vehicle 1 : 2025-2025 Freightliner 108SD

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : A defect, which relates to motor vehicle safety, exists in certain model year 2025 Freightliner 108SD, 114SD, Business Class M2, Cascadia and Western Star 47X vehicles equipped with specific Meritor front axles built in DTNA's Saltillo and Santiago plants and with front axle tie rod assemblies that may have incorporated ball studs that were not properly heat treated by a sub-supplier. Vehicles outside the recall population were manufactured with tie rod assemblies that use ball studs that were produced to specification

Production Dates : APR 22, 2024 - JUN 26, 2024

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2025-2025 Freightliner 114SD

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : A defect, which relates to motor vehicle safety, exists in certain model year 2025 Freightliner 108SD, 114SD, Business Class M2, Cascadia and Western Star 47X vehicles equipped with specific Meritor front axles built in DTNA's Saltillo and Santiago plants and with front axle tie rod assemblies that may have incorporated ball studs that were not properly heat treated by a sub-supplier. Vehicles outside the recall population were manufactured with tie rod assemblies that use ball studs that were produced to specification.

Production Dates : MAY 20, 2024 - JUL 02, 2024

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 3 : 2025-2025 Freightliner Business Class M2

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : HATCHBACK

Power Train : DIESEL

Descriptive Information : A defect, which relates to motor vehicle safety, exists in certain model year 2025 Freightliner 108SD, 114SD, Business Class M2, Cascadia and Western Star 47X vehicles equipped with specific Meritor front axles built in DTNA's Saltillo and Santiago plants and with front axle tie rod assemblies that may have incorporated ball studs that were not properly heat treated by a sub-supplier. Vehicles outside the recall population were manufactured with tie rod assemblies that use ball studs that were produced to specification.

Production Dates : APR 22, 2024 - JUL 20, 2024

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 4 : 2025-2025 Freightliner Cascadia

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : A defect, which relates to motor vehicle safety, exists in certain model year 2025 Freightliner 108SD, 114SD, Business Class M2, Cascadia and Western Star 47X vehicles equipped with specific Meritor front axles built in DTNA's Saltillo and Santiago plants and with front axle tie rod assemblies that may have incorporated ball studs that were not properly heat treated by a sub-supplier. Vehicles outside the recall population were manufactured with tie rod assemblies that use ball studs that were produced to specification.

Production Dates : APR 15, 2024 - JUL 11, 2024

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Vehicle 5 : 2025-2025 Western Star 47X

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : A defect, which relates to motor vehicle safety, exists in certain model year 2025 Freightliner 108SD, 114SD, Business Class M2, Cascadia and Western Star 47X vehicles equipped with specific Meritor front axles built in DTNA's Saltillo and Santiago plants and with front axle tie rod assemblies that may have incorporated ball studs that were not properly heat treated by a sub-supplier. Vehicles outside the recall population were manufactured with tie rod assemblies that use ball studs that were produced to specification.

Production Dates : JUN 21, 2024 - JUN 21, 2024

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : A defect, which relates to motor vehicle safety, exists in certain model year 2025 Freightliner 108SD, 114SD, Business Class M2, Cascadia and Western Star 47X vehicles. The front axles may have been equipped with a tie rod where the ball studs were improperly heat treated which could allow them to crack and break.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : On the affected vehicles, if one or more of the ball studs crack and the crack propagates to the point of failure, this could lead to a separation of the tie rod connection and could result in a partial loss of steering ability without warning which can increase the risk of a crash.

Description of the Cause : Improper heat treatment of the tie rod end by the sub-supplier.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Tie Rod Assembly

Component Description : Tie Rod Assembly

Component Part Number : A1-3102E4737

Component Name 2 : Tie Rod Assembly

Component Description : Tie Rod Assembly

Component Part Number : A1-3102F4738

Component Name 3 : Tie Rod Assembly

Component Description : Tie Rod Assembly

Component Part Number : A1-3102T4752

Component Name 4 : Tie Rod Assembly

Component Description : Tie Rod Assembly

Component Part Number : A1-3102U4753

Supplier Identification :**Component Manufacturer**

Name : Cummins, Inc.
Address : 2135 West Maple
Troy Michigan 48084
Country : United States

Chronology :

On June 4, 2024, DTNA filed recalls 24V-401 and 24V-402 following a determination that certain front axles may have been equipped with a tie rod where the ball studs were improperly heat treated by a sub-supplier which could allow them to crack and break . For these two recalls the sub-supplier had incorrectly allowed a batch of improperly heat treated ball joints to be mixed into production ready parts that were installed onto tie rod assemblies for steer axles used in certain school bus and non-school bus applications. On July 3, 2024, DTNA filed recall 24V-509 following a determination that certain pusher axles may have been equipped with tie rods with the same improperly heat-treated ball studs produced by the same sub-supplier. On July 11, 2024, DTNA was informed that certain Meritor front axles also had used the improperly heat-treated ball studs. Between July 11, 2024 and July 25, 2024 DTNA investigated the population and discussed the topic with Meritor, Inc. On July 25, 2024 DTNA decided to conduct a safety recall for this population of vehicles. DTNA received a copy of the recall submitted by Meritor, Inc. related to the aftermarket equipment for this same issue on July 29, 2024. DTNA is not aware of any warranty claims, customer complaints or reports of injury or death potentially related to this issue.

Description of Remedy :

Description of Remedy Program :	A Daimler Truck North America authorized service facility will replace the complete tie rod assembly. Repairs will be performed free of charge by Daimler Truck North America authorized service facilities. Details of the reimbursement plan will be included in the owner's notification letter. Owners are directed to seek reimbursement through authorized dealers.
How Remedy Component Differs from Recalled Component :	The recalled components were experimental parts manufactured utilizing an unapproved heat treat process that the supplier inadvertently introduced into production. The remedy components will be produced to intended specification
Identify How/When Recall Condition was Corrected in Production :	Known suspect parts has been quarantined. Containment efforts within the plant are ongoing.

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 20, 2024 - AUG 20, 2024

Planned Owner Notification Date : SEP 29, 2024 - SEP 29, 2024

* NR - Not Reported