

# Part 573 Safety Recall Report

# 22E-085

**Manufacturer Name :** Meritor, Inc.

**Submission Date :** SEP 30, 2022

**NHTSA Recall No. :** 22E-085

**Manufacturer Recall No. :** C22AJ



## Manufacturer Information :

**Manufacturer Name :** Meritor, Inc.

**Address :** 2135 West Maple Road

Troy MI 48084

**Company phone :** 248-435-1725

## Population :

**Number of potentially involved :** 1,601

**Estimated percentage with defect :** 100 %

## Equipment Information :

**Brand / Trade 1 :** Meritor

**Model :** Front Non-Drive Steer Axle

**Part No. :** FL941 & MFS Series

**Size :** NR

**Function :** Axle

**Descriptive Information :** This recall involves axles produced by Meritor using suspect tie rod clamps supplied to Meritor between December 16, 2021 and May 16, 2022.

**Production Dates :** DEC 16, 2021 - MAY 16, 2022

## Description of Defect :

**Description of the Defect :** Based upon information provided by Meritor's supplier, due to a heat treat issue, Meritor has determined that a population of tie rod clamps used in the manufacture of the subject axle population may be susceptible to cracking. Over time, a crack may lead to a complete fracture of the clamp, thereby reducing clamp load to the tie rod end. If both clamps on the tie rod were to fail, the cross tube could start to unscrew, vehicle alignment issues would evolve, and there is a potential for the tie rod end to separate from the cross tube. Separation is more likely to occur when tie rod loads are highest, which is at slow vehicle speeds over rough terrain or turning maneuvers.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** Separation of the tie rod end from the cross tube could result in partial loss of vehicle steering capability, increasing the risk of a crash.

**Description of the Cause :** Excessive carbon caused by a damaged control board on one of four furnaces at the supplier.

**Identification of Any Warning :** The initial effect would be a vehicle out of alignment. If both clamps on the tie

that can Occur : rod cracked, the tube could rotate and result in a partial loss of steering capability.

## Involved Components :

Component Name : Tie Rod Assembly

Component Description : NR

Component Part Number : B1-3102N4850

Component Name : Tie Rod Assembly

Component Description : NR

Component Part Number : B1-3102R4854

Component Name : Tie Rod Assembly

Component Description : NR

Component Part Number : A1-3102S4855

## Supplier Identification :

### Component Manufacturer

Name : ZF Group

Address : 12001 Tech Center Drive  
Livonia Michigan 48150

Country : United States

## Chronology :

6/27/2022 - Meritor's supplier shared an 8D related to the supplier's investigation into cracks on tie rod clamps

7/5 - 7/29/2022 - Meritor's engineering team developed and finalized a technical position regarding the cracked clamps issue.

7/28/2022 - Meritor's PSAC council reviewed the technical position paper and decided to communicate the

issue to its customers as a customer satisfaction issue.

9/16/2022 - Autocar, LLC filed a Part 573 Defect Information Report (DIR) related to this condition. See Recall No. 22V697.

9/22/2022 - Navistar filed a Part 573 Defect Information Report related to this condition. See Recall No. 22V711.

9/30/2022 - Based upon the Part 573 DIRs submitted by Autocar and Navistar, Meritor decided to file this DIR in accordance with 49.C.F.R. 573.3(f).

Meritor is not aware of any accidents or injuries related to this condition.

## Description of Remedy :

Description of Remedy Program : Meritor will work with affected vehicle manufacturers to replace suspect tie rod clamps on the subject axles.

How Remedy Component Differs from Recalled Component : Replacement tie rod clamps will meet Meritor's specifications for heat treatment.

Identify How/When Recall Condition was Corrected in Production : The sub-supplier to Meritor's tier 1 supplier introduced metallurgical evaluation for excessive carburization for all heat treatment batches and an alarm was installed to alert operator if any deviating conditions occur. The correction was completed 5/11/2022.

## Recall Schedule :

Description of Recall Schedule : Meritor is filing this defect report in accordance with 49.C.F.R. 573.3(f) based on the 573 Defect Reports filed by Autocar and Navistar. The recall schedule, including dealer notification and owner notification, will be managed by each affected OEM. If requested, Meritor will support the OEM as needed.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

## Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Navistar  
Address : 2701 Navistar Dr.  
Lisle IL 60532  
Country : US  
Company Phone : 3313325684

Name : Autocar  
Address : 4680 Pinson Valley Parkway  
Center Point AL 35215  
Country : US  
Company Phone : 8799733486

Name : PACCAR  
Address : 3200 Airport Road  
Denton TX 76202  
Country : US  
Company Phone : 9402202760

Name : E-One  
Address : 4161 SW 13th Street  
Ocala FL 34474  
Country : US  
Company Phone : 3528615044

Name : Grove US LLC  
Address : 1565 Buchanan Trail East  
Shady Grove PA 17256  
Country : US  
Company Phone : 7175978121

Name : Pierce Manufacturing  
Address : 2600 American Drive  
Appleton WI 54912  
Country : US  
Company Phone : 9208323346

Name : Seagrave Fire Apparatus Division  
Address : 105 East 12th Street  
Clintonville WI 54929  
Country : US  
Company Phone : 7158232141

Name : Spartan Fire

Address : 1541 Reynolds Rd  
Charlotte MI 48813

Country : US

Company Phone : 5175884700

Name : DTNA

Address : 4747 North Avenue  
Portland OR 97217

Country : US

Company Phone : 5037544439

\* NR - Not Reported