

Part 573 Safety Recall Report

21E-025

Manufacturer Name : Meritor, Inc.

Submission Date : MAY 10, 2021

NHTSA Recall No. : 21E-025

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Meritor, Inc.

Address : 2135 West Maple Road

Troy MI 48084

Company phone : 248-435-1725

Population :

Number of potentially involved : 2,918

Estimated percentage with defect : 1 %

Equipment Information :

Brand / Trade 1 : Meritor

Model : TSE T2024 Air Chamber

Part No. : D3 3376T20

Size : NR

Function : Brakes

Descriptive Information : Meritor received report from the field regarding air disc brake assemblies built with TSE T2024 spring brake chambers supplied by supplier TSE Brakes lot F5Z. The suspect brake chambers may have been assembled with springs with perpendicularity out of specification. The suspect brake chambers were incorporated into assemblies that were built between 2/11/2020 and 7/14/2020 at the York, SC manufacturing site. This equipment report is associated with Navistar assigned Campaign number 21502 on or about April 1, 2021.

Production Dates : FEB 11, 2020 - JUL 14, 2020

Description of Defect :

Description of the Defect : The spring brake chamber may have been assembled with springs with perpendicularity out of specification, that can cause a loss of air pressure and increase risk of a crash.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the pressure plate tears the diaphragm the vehicle operator will experience loss of air pressure within the vehicle air system. The loss of air pressure may lead to application of the parking brake rendering the vehicle un-drivable.

Description of the Cause : The spring brake chamber may have been assembled with springs with perpendicularity out of specification. The tooling used in the spring hardening

process by TSE Brakes was misadjusted and may result in the tooling to come in contact with the heated spring end during the hardening process causing the spring perpendicularity to become out of specification.

Identification of Any Warning that can Occur : Operator will receive low air warning light and audible alarm in the vehicle if the diaphragm tears and the air system is unable to maintain air pressure. The loss of air pressure may lead to application of the parking brake rendering the vehicle un-drivable and noticeable by the driver.

Involved Components :

Component Name : Air Chamber

Component Description : Air Chamber

Component Part Number : TSE T2024

Supplier Identification :

Component Manufacturer

Name : TSE Brakes Inc.

Address : 2310 Industrial Drive S.W.
Cullman Alabama 35505

Country : United States

Chronology :

- 1/6/21 Meritor was notified of field issue related to spring air leaks at the diaphragm.
- 1/11/21 Meritor begins investigation of issue with supplier
- 1/19/21 Meritor meets with supplier quality and customer to discuss problem solving and root cause
- 1/19/21 Meritor engineering develops testing plan to collect data for further analysis.
- 2/26/21 Meritor reviews brake tests with customer, verifying air warning system activated.
- 3/1 - 3/15/21 Meritor compliance reviews brake testing data
- 3/8/21 Meritor and customer review warranty data and failures
- 3/15-3/22/21 Customer performs additional field inspections for suspect lot. Additional units identified.
- 3/31/21 Meritor compliance reviews further developments regarding TSE issue
- 4/2/21 Meritor determines issue to be safety related

Description of Remedy :

Description of Remedy Program : Meritor will inspect suspect population for shifting of the pressure plate and replacing brake chambers where the pressure plate has shifted. Customers will be reimbursed for inspection process and defective parts.

How Remedy Component Differs from Recalled Component : The remedied TSE T2024 Air Chamber spring perpendicularity is within specification. The recalled TSE T2024 Air Chamber spring perpendicularity is not within specification.

Identify How/When Recall Condition was Corrected in Production : Containment established on December 23,2020 through the introduction of 100% inspection at TSE.

Recall Schedule :

Description of Recall Schedule : Notify OEM via 577 recall letter

Planned Dealer Notification Date : APR 12, 2021 - APR 30, 2021

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, Inc.
Address : 2701 Navistar Drive
Lisle IL 60532
Country : US
Company Phone : 3321590

Name : PACCAR
Address : 3200 Airport Rd
Denton TX 76205
Country : US
Company Phone : NR

* NR - Not Reported