

Part 573 Safety Recall Report

19E-015

Manufacturer Name : Meritor, Inc.

Submission Date : JUN 21, 2019

NHTSA Recall No. : 19E-015

Manufacturer Recall No. : C19AA



Manufacturer Information :

Manufacturer Name : Meritor, Inc.

Address : 2135 West Maple Road
Troy MI 48084

Company phone : 248-435-1725

Population :

Number of potentially involved : 198

Estimated percentage with defect : 100 %

Equipment Information :

Brand / Trade 1 : Meritor

Model : Op Shaft Sub Assembly

Part No. : 68324870

Size : NR

Function : Braking

Descriptive Information : Meritor Cwmbran received notice regarding in service brakes where drivers had stated vehicle pulling during braking. It was determined that the drive pins had been fractured as the result of assembly error. The affected assemblies are identified with a barcode label where the fourth character is the letter "E" and the fifth and sixth characters include all numbers from 27 through and including 38. The cause of the assembly error was identified and corrected.

Production Dates : JUL 01, 2018 - DEC 02, 2018

Description of Defect :

Description of the Defect : Meritor EX225 disc brake calipers containing the 68324870 op-shaft sub assembly may contain drive pins that may have been cracked during assembly. A cracked drive pin will operate correctly until the drive pin is fully fractured.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Loss of vehicle control or property damage could result from the fracture of a drive pin, particularly if vehicle has multiple calipers affected by the condition.

Description of the Cause : Certain drive pinions were cracked during the assembly process due to the selection of a incorrect fixture.

Identification of Any Warning A single drive pin fracture on a front steer axle will be detected by the operator when cross axle pulling occurs. Multiple drive pin fractures on a single steer

that can Occur : axle will result in reduced braking capability.

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

11/14/2018: Fractured drive pins reported to Meritor site located in Cwmbran, UK.

11/15/2018: Meritor visits dealer to inspect parts and collect information for analysis.

11/28/2018: Meritor opens formal investigation.

November 2018 through January 2019: fractured and cracked drive pins are returned to Meritor for further investigation.

December 2018: Meritor performs root cause analysis. Drive pin material and dimensional testing indicate that neither heat treat nor dimensions are the root cause. Root cause analysis determines that the fractured drive pins were the result of operator error during assembly: incorrect tooling was used to assemble certain drive pins.

January and February 2019: Meritor continues to analyze returned drive pins and conducted brake testing to determine whether cracked drive pins would eventually fracture.

February 22, 2019: Meritor determine field action is required.

Description of Remedy :

Description of Remedy Program : The barcode label on the Meritor EX225 air disc brake calipers will need to be inspected. If the fourth character is "E" and the numbers at the fifth and sixth positions are between 27 and 48 (inclusive), or if the label is no longer present, the caliper must be replaced. Defective parts will be replaced by Meritor.

How Remedy Component Differs from Recalled Component : The barcode label on the Meritor EX225 air disc brake calipers will need to be inspected. If the fourth character is "E" and the numbers at the fifth and sixth positions are between 27 and 48 (inclusive), or if the label is no longer present, the caliper must be replaced. Meritor has eliminated the potential for the operator error that caused the defect at issue by modifying a fixture so that it cannot be used for this assembly. Remedy components will be assembled properly.

Identify How/When Recall Condition was Corrected in Production : January 2, 2019: Fixture used in the incorrect assembly modified to eliminate assembly error.

Recall Schedule :

Description of Recall Schedule : Send 577 notifications to dealers.

Planned Dealer Notification Date : FEB 25, 2019 - MAR 01, 2019

Planned Owner Notification Date : FEB 25, 2019 - MAR 01, 2019

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 : Arizona Brake & Clutch

Address : 2211 North Black Canyon
Phoenix AZ 85009

Country : US

Company Phone : NR

Name : Terex

Address : 7727 Freedom Way
Fort Wayne IN 46818

Country : US

Company Phone : NR

* NR - Not Reported