

Part 573 Safety Recall Report

21E-028

Manufacturer Name : Meritor, Inc.

Submission Date : APR 16, 2021

NHTSA Recall No. : 21E-028

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 : 15

Estimated percentage with defect : NR

Equipment Information :

Brand / Trade 1 : Meritor

Model : 14Xe

Part No. : A-3200A2653-657

Size : NR

Function : ePowertrain

Descriptive Information : Meritor discovered during testing that the motor stator of a 14Xe ePowertrain did not meet requirements during testing. The stator lug terminations were insufficiently crimped creating high resistance and ultimately excessive heat. The suspect stator lug terminations were incorporated into assemblies that were built between 2/8/2019 and 8/4/2020.

Production Dates : FEB 08, 2019 - AUG 04, 2020

Brand / Trade 2 : Meritor

Model : 14Xe

Part No. : A-3200D2656-478

Size : NR

Function : ePowertrain

Descriptive Information : Meritor discovered during testing that the motor stator of a 14Xe ePowertrain did not meet requirements during testing. The stator lug terminations were insufficiently crimped creating high resistance and ultimately excessive heat. The suspect stator lug terminations were incorporated into assemblies that were built between 2/8/2019 and 8/4/2020.

Production Dates : FEB 08, 2019 - AUG 04, 2020

Description of Defect :

Description of the Defect : The stator lug terminations were insufficiently crimped by the supplier, Danfoss, which created high resistance and ultimately excessive heat.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The insufficiently crimped stator lug terminations can isolate the fault detection system and will not allow the high voltage system to start. The operator may experience loss of power due to the accessory systems. The loss of power may lead to failure to propel and failure to energize the system.

Description of the Cause : The stator lug terminations are component parts which are provided by Danfoss. Supplier (Danfoss) concurs that the cause of potential failure is insufficiently crimped terminations which are supplied to Meritor by Danfoss, creating high resistance and ultimately excessive heat.

Identification of Any Warning that can Occur : Operator can experience a warning from the supervisory controller preceding a loss of power.

Involved Components :

Component Name : Stator Assembly

Component Description : Stator Assembly

Component Part Number : A-3303S1111

Supplier Identification :

Component Manufacturer

Name : Danfoss

Address : 4120 Specialty PL

Long Mount Colorado 80504

Country : United States

Chronology :

2/8/2021 Meritor experiences ground fault interruption test failure on 14Xe during engineering test.

2/9/2021 - 4/1/2021 Meritor initiates problem solving work and additional testing with functional team, including Danfoss

4/5/2021 Meritor compliance reviews analysis completed to date. Follow up meeting scheduled to review

engineering technical position paper and determine next steps
4/9/2021 Meritor compliance updated on technical position paper and determines issue to be safety related

Description of Remedy :

Description of Remedy Program : Meritor will inspect entire suspect population for heat damage on the carrier terminal block. Vehicles with heat damage will be taken out of service and have stators replaced. If no signs of heat damage are found, the vehicle will stay in service and stator replacement will be scheduled as a preventive measure. Customers will be reimbursed for inspection process and defective parts.

How Remedy Component Differs from Recalled Component : The remedied 14Xe ePowertrain will have stator lug terminations that are satisfactorily crimped.

Identify How/When Recall Condition was Corrected in Production : Containment established March 26, 2021 through the implementation of a new lug crimp tool. New crimp tool, training video and detailed work instructions provided to stakeholders.

Recall Schedule :

Description of Recall Schedule : 577 Letter to OEM

Planned Dealer Notification Date : APR 19, 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 : PACCAR

Address : 3200 Airport Rd
Denton TX 76205

Country : US

Company Phone : NR

Name : Navistar, Inc.

Address : 2701 Navistar Drive
Lisle IL 60532

Country : US

Company Phone : NR

Name : Daimler Truck North America

Address : 4747 North Channel Avenue
Portland OR 97217

Country : US

Company Phone : NR

* NR - Not Reported