

Part 573 Safety Recall Report

16V-435

Manufacturer Name : Terex South Dakota, Inc.

Submission Date : JUN 10, 2016

NHTSA Recall No. : 16V-435

Manufacturer Recall No. : SN641



Manufacturer Information :

Manufacturer Name : Terex South Dakota, Inc.

Address : 500 Oakwood Road

PO Box1050 Watertown SD 57201

Company phone : 1-800-982-8975

Population :

Number of potentially involved : 440

Estimated percentage with defect : NR

Vehicle Information :

Vehicle 1 : 2016-2016 Terex and others HR, HRX, LT, LTM, TL, TC, TCX,

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

Descriptive Information : This series of aerial devices are installed on trucks to elevate personnel to perform power line construction and maintenance.

Production Dates : JAN 01, 2016 - MAY 12, 2016

VIN Range 1 : Begin :

NR

End : NR

Not sequential

Description of Defect :

Description of the Defect : Terex South Dakota (TSD) has determined that some aerial devices manufactured from January 1, 2016 through May 12, 2016 may contain a hydraulic motor used for boom rotation and winch functions that may have a defective hydraulic motor shaft. The hydraulic motor was supplied to TSD from December 31, 2016 through March 30, 2016

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the shaft of the hydraulic motor for boom rotation fails, the aerial device may experience unintended boom movement. If the shaft on the hydraulic motor used on the winch fails, the load may not lock in position or not be able to be lowered prior to lowering the boom.

Description of the Cause : The suppliers manufacturing process provided inconsistencies in the output shaft

Identification of Any Warning that can Occur : No warning will occur.

Supplier Identification :

Component Manufacturer

Name : Eaton Hydraulics LLC
Address : 14900 Technology Drive
Eden Prairie MINNESOTA 55344
Country : United States

Chronology :

The supplier, Eaton Hydraulics, notified TSD on May 10th, 2016 of their Campaign Bulletin #EP-16-0043, to address the inconsistencies in the motor shaft material. On May 12th motors in the affected range from production stock were returned to Eaton for evaluation. Of the 109 motors returned none were defective. TSD reviewed the application of the hydraulic motor and performed testing to determine if boom or load movement could occur if a hydraulic motor shaft would fail. Tests were conducted on 6/3/16 and some movement was observed when the gearbox was in motion in the direction it would back drive. On 6/8/16 a discussion with the supplier was held to discuss the tests performed and the failure mode. On 6/10/16 the supplier confirmed that the method of use is affected. No shaft failures in the field have been reported. The supplier indicates the failure rate is 0.025%.

Description of Remedy :

Description of Remedy Program :	A safety recall bulletin will be issued to the owners of affected units informing them to inspect the motor to determine if it falls in the date range affected. If the motor is in the specified range the hydraulic motor will be replaced. The hydraulic motor replacement will be covered under warranty.
How Remedy Component Differs from Recalled Component :	Hydraulic motors with the serial numbers between 151226MOHxxxx and 160330MOHxxxx are affected by this recall.
Identify How/When Recall Condition was Corrected in Production :	TSD inspected the serial numbers of production and aftermarket hydraulic motors on 5/12/16. Motors in the affected range were returned to the vendor for their evaluation to determine if the defect existed.

Recall Schedule :

Description of Recall Schedule :	Recall will begin when it has been approved by HSTAS and parts can be obtained. Dealer notification will occur within 5 days after the safety recall notification has been finalized.
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	NR - NR

* NR - Not Reported