

Part 573 Safety Recall Report

16V-477

Manufacturer Name : Terex South Dakota, Inc.

Submission Date : JUN 23, 2016

NHTSA Recall No. : 16V-477

Manufacturer Recall No. : SN642



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 : 400

Estimated percentage with defect : 75 %

Vehicle Information :

Vehicle 1 : 2015-2016 Terex and others HR, HRX, TC, and TCX aerials

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

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

Production Dates : MAY 04, 2015 - JUN 15, 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 May 4, 2015 through June 15, 2016 may contain a platform leveling cylinder with weld quality that does not meet specification. The leveling cylinder was supplied to TSD from May 2015 through June 14, 2016. The HR, HRX, TC, and TCX model aerials are affected through that date range.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If the platform leveling cylinder at the elbow fails, the platform can tilt, which can result in occupants falling out of the platform.

Description of the Cause : The supplier's weld process did not provide proper fusion at the weld joint.

Identification of Any Warning that can Occur : Platform may not stay level.

Supplier Identification :**Component Manufacturer**

Name : Mountain Power Hydraulics
Address : 502 County Road 1 South
Mt. Lake MINNESOTA 56159
Country : United States

Chronology :

During a quality inspection of incoming cylinders on June 10, 2016 a rod failed. That lot of parts was rejected. The supplier was given the failed parts for their evaluation. Other cylinders in that lot were retained and further analysis performed. Cylinders were cross-sectioned to inspect the weld and improper pre-heat process was discovered on June 14, 2016. The supplier was notified and it was discovered on June 21, 2016 that the supplier changed their weld process on May 4, 2015. Cylinders from other lots in stock were evaluated and some were found with similar indications. Evaluation of cylinders will continue to verify range. No failures have been reported in the field.

Description of Remedy :

Description of Remedy Program : TSD will replace the affected hydraulic cylinders.
How Remedy Component Differs from Recalled Component : Cylinder serial number will identify affected range.
Identify How/When Recall Condition was Corrected in Production : Leveling cylinders in stock were quarantined and returned to the supplier or reworked with new rod weldments with proper pre-heat and weld penetration. Leveling cylinders installed on units after June 14, 2016 have cylinder rod weldments with the proper pre-heat and weld penetration.

Recall Schedule :

Description of Recall Schedule : Recall will begin when it has been approved by NHTSA.
Planned Dealer Notification Date : JUN 29, 2016 - NR
Planned Owner Notification Date : NR - NR

* NR - Not Reported