

# Part 573 Safety Recall Report

# 16V-177

**Manufacturer Name :** Terex South Dakota, Inc.

**Submission Date :** JUL 29, 2016

**NHTSA Recall No. :** 16V-177

**Manufacturer Recall No. :** SN638



## 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 :** 2,153

**Estimated percentage with defect :** 5 %

## Vehicle Information :

**Vehicle 1 :** 2011-2016 Terex and Others HR, HRX, TC, TCX, SML Aerials

**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES

**Body Style :**

**Power Train :** NR

**Descriptive Information :** This series of aerial devices were installed on trucks to perform power line construction and maintenance.

**Production Dates :** JUL 01, 2011 - MAR 21, 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 July 2011 through March 21, 2016 may contain a boom tip leveling sprocket weldment with weld quality that does not meet specification. The boom tip leveling sprocket weldment was supplied to TSD from July 2011 to March 21st, 2016. The HR, HRX, and XML models are affected through that date range but the TC and TCX models are only affected from September 17th, 2012 through March 21st, 2016 as these models utilized a different sprocket prior to the September 17th, 2012 effective date.

**FMVSS 1 :** NR

**FMVSS 2 :** NR

**Description of the Safety Risk :** If the boom tip leveling sprocket weldment fails, the platform can tilt which can result in occupants falling out of the platform.

**Description of the Cause :** The suppliers weld process did not provide proper fusion at the weld joint.

**Identification of Any Warning that can Occur :** An inspection, in accordance with the maintenance manual will detect a cracked leveling sprocket weldment.

**Supplier Identification :****Component Manufacturer**

Name : NR  
Address : NR  
NR  
Country : NR

**Chronology :**

One owner identified one crack during an annual inspection in February 2016. TSD received the sprocket for evaluation on March 21, 2016. The boom tip leveling sprocket weldment weld quality was inspected. Incomplete weld fusion between the sprocket and hub was discovered. The same owner inspected 9 other units in their fleet and discovered 2 more units with suspected cracks, which are being returned for evaluation. Current production sprockets from the same supplier were cross-sectioned for inspection and revealed the same weld quality issues. The model year start date is being verified, but at this time it correlates to when the supplier started providing the sprocket to the applicable model. The model year end date was determined by evaluating current production parts received from the supplier and it is coinciding with the date when production was stopped.

**Description of Remedy :**

Description of Remedy Program :	A safety bulletin will be issued to owners of affected units informing them to inspect the sprocket for cracks in the weld. The work required to repair the boom tip leveling sprocket weldment will be covered under warranty.
How Remedy Component Differs from Recalled Component :	TSD is currently evaluating a suitable field remedy.
Identify How/When Recall Condition was Corrected in Production :	TSD stopped production of units with the affected sprockets on March 21st, 2016. TSD started to manufacture and supply the leveling sprocket weldments to production on March 25th, 2016.

**Recall Schedule :**

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

\* NR - Not Reported