

Part 573 Safety Recall Report

18V-520

Manufacturer Name : Terex South Dakota, Inc.

Submission Date : SEP 19, 2018

NHTSA Recall No. : 18V-520

Manufacturer Recall No. : SN665



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 : 101

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2015-2018 Terex C4000, C5000, C6000, General

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

Descriptive Information : The Kelly bar is a component used to attach the auger to the auger drive on Digger Derricks. The subject bar has a weld joining the coupler which attaches to the digger drive to the bar which the auger pins to.

Production Dates : DEC 01, 2015 - APR 01, 2018

VIN Range 1 : Begin : NR

End : NR

☐ Not sequential

Description of Defect :

Description of the Defect : Kelly bars with welded couplers may have undersize welds between the coupler and the hex shaft

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The weld between the coupler and the hex shaft can fail and allow the auger to fall.

Description of the Cause : The Kelly bar was fabricated with undersize weld.

Identification of Any Warning that can Occur : The weld will exhibit cracks around the face of the weld before complete failure occurs.

Supplier Identification :

Component Manufacturer

Name : NR
Address : NR
NR
Country : NR

Chronology :

A report of a Kelly bar built in 2015 failing was received on 3/1/2018. It was installed on a Terex Digger Derrick and failed while the auger was being un-stowed for use. The Kelly bar was not purchased with the Digger Derrick but supplied by the installer. The failed parts were received by TSD on 3/26/2018 for evaluation and to determine if the component was a TSD supplied part. The parts were examined and it was a TSD component. The weld had cracked over 75% of the weld area prior to final separation. The weld was determined not to be of the size stated on the print. The parts were returned to the owner after inspection. Kelly bars in the field were examined for weld condition. Four others were discovered that had existing cracks. In July 2018 the population was evaluated. It was determined that the welded Kelly bar was used on Auger drives with longer gearbox cases with higher torque. Recall was determined on 7/31/2018. 8/31/18 Further research has determined that there was a casting change that influenced the weld size in December 2015

Description of Remedy :

Description of Remedy Program :	The affected Kelly bars with undersize weld will be repaired or replaced.
How Remedy Component Differs from Recalled Component :	The weld size and profile will be visually different. The casting markings and profile is different between affected and not affected parts
Identify How/When Recall Condition was Corrected in Production :	The weld joint was improved and weld size inspection protocol implemented for parts built after 4/1/2018. The casting profile is returned to pre Dec 2015 profile

Recall Schedule :

Description of Recall Schedule :	Within 60 days of this report all owners will be notified of the issue and instructed on repair or replacement.
Planned Dealer Notification Date :	AUG 20, 2018 - AUG 21, 2018
Planned Owner Notification Date :	OCT 05, 2018 - NR

* NR - Not Reported