

Part 573 Safety Recall Report

22V-674

Manufacturer Name : Terex South Dakota, Inc.

Submission Date : SEP 08, 2022

NHTSA Recall No. : 22V-674

Manufacturer Recall No. : SN712



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 : 194

Estimated percentage with defect : 56 %

Vehicle Information :

Vehicle 1 : 2019-2022 Terex TL80, TL80/112, TL100

Vehicle Type : LOW VOLUME VEHICLES

Body Style :

Power Train : NR

Descriptive Information : The population includes all TL80, TL80/112, & TL100 machines built to date.

Production Dates : MAR 27, 2019 - AUG 26, 2022

VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect : The welds for the platform leveling cylinder support bosses may crack, which may cause the cylinder support pin to also crack until failure.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The platform may tip, causing the occupant(s) to fall resulting in injury.

Description of the Cause : The hydraulic elevator storage latch does not properly restrain the machine during road travel. This can overload the platform leveling cylinder boss welds and cause fatigue cracking.

Identification of Any Warning that can Occur : The operator is to conduct a daily visual pre-shift inspection of the entire machine looking for cracked welds.

Involved Components :

Component Name 1 : Inner Boom, End Mount

Component Description : Support weldment at the boom tip end of the upper boom

Component Part Number : 620262

Supplier Identification :

Component Manufacturer

Name : Terex South Dakota, Inc

Address : 3140 15th Ave SE

Watertown South Dakota 57201

Country : United States

Chronology :

In May of 2020, Terex was notified that welds for the boom tip platform leveling cylinder support bosses cracked. The cylinder support pin was not cracked. Due to the construction of the weld joint, the bosses with cracked welds were held captive by the boom structure, preventing the platform from tipping. An investigation began. Terex released Product Notice PN689 on 5/6/21 (reported as an External Communication in May of 2021) informing owners to inspect the welds and add additional welds. Production booms had the additional welds added in June of 2020. Between 4/8/22 and 4/26/22, Terex was notified of 3 machines that had the additional welds crack. The boom tips for 2 of the machines were sent back to Terex for analysis. On 5/10/22 Terex was notified of a machine that during an inspection it was discovered that the additional welds and cylinder retainment pin cracked, which could result in the platform tipping. Development and validation of a fix began at that time. On 8/30/22, the list of affected units was determined. The decision to perform a recall was made on 9/1/22. To date, there have been 8 machines reported with the additional welds that have cracked. Out of the 8 machines, 7 are the TL80/112 model and 1 is the TL100 model. The analysis of the issue has determined that the welds are cracking during road travel and on the TL80/112 units due to the current hydraulic latch for the elevator not properly tying down the machine during travel. The decision was made to recall the TL80/112 machines requiring the boom tip platform leveling cylinder support bosses be reinforced with additional plates and the elevator be secured with a ratcheting hold down as soon as possible. The TL80 & TL100 models do not have the elevator and have seen a very low failure rate. Out of an abundance of caution it was decided to recall the TL80 & TL100 models and have the reinforcement of the boom tip leveling cylinder bosses added at the next maintenance interval.

Description of Remedy :

Description of Remedy Program : All TL80, TL80/112, and TL100 machines will have reinforcement plates added to the boom tip platform leveling cylinder bosses. This kit will be added to the machine at no cost to the owner and will take 6 hours to complete. In addition, all TL80/112 machines will also have the hydraulic storage latch for the elevator replaced with a ratcheting hold down. This kit will be added to the machine at no cost to the owner and will take 2 hours to complete.

How Remedy Component Differs from Recalled Component : The remedied machine will have the additional reinforcement plates added to the boom tip platform leveling cylinder bosses. For the TL80/112 machines, they will also have the hydraulic storage latch for the elevator replaced with the ratcheting hold down.

Identify How/When Recall Condition was Corrected in Production : No affected machines have been built since the decision to recall on September 1, 2022. All upcoming machines will have reinforcement plates added for the boom tip platform leveling cylinder bosses and the TL80/112 machines will also have the ratcheting hold down for the elevator.

Recall Schedule :

Description of Recall Schedule : Dealer notification will begin by September 16, 2022. Owners will be notified by October 14, 2022 to visually inspect their machine and to contact Terex to coordinate the installation of the Field Service Kit(s). Parts will be provided to repair when available.

Planned Dealer Notification Date : SEP 16, 2022 - NR

Planned Owner Notification Date : OCT 14, 2022 - NR

* NR - Not Reported