

Part 573 Safety Recall Report

24V-042

Manufacturer Name : Terex South Dakota, Inc.**Submission Date :** JAN 25, 2024**NHTSA Recall No. :** 24V-042**Manufacturer Recall No. :** SN724**Manufacturer Information :**

Manufacturer Name : Terex South Dakota, Inc.

Address : 3140 15th Ave SE

PO Box 1050 Watertown SD 57201

Company phone : 18448373948

Population :

Number of potentially involved : 340

Estimated percentage with defect : 90 %

Vehicle Information :

Vehicle 1 : 2023-2023 Terex Optima-TC55, Optima-HRX50, Optima-HRX55, XT Pro

Vehicle Type : LOW VOLUME VEHICLES

Body Style :

Power Train : NR

Descriptive Information : The quality records for the affected product lines were used to determine the recall population. All XT Pro aerial devices produced from May 2, 2023 through July 11, 2023 and Optima-TC55, Optima-HRX50, and Optima-HRX55 aerial devices produced from August 28, 2023 through October 5, 2023 are included in the recall population.

Production Dates : MAY 02, 2023 - OCT 05, 2023**VIN Range 1 : Begin :**

NR

End : NR☐ Not sequential**Description of Defect :**

Description of the Defect : The turntable to rotation bearing bolts may not have been torqued properly. The improperly torqued bolts may loosen causing the bearing bolts to fail.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Failure of the rotation bearing bolts could cause the boom to fall which could result in injury or death.

Description of the Cause : The torque tool used to torque the turntable to rotation bearing bolts may not have achieved the specified torque value.

Identification of Any Warning that can Occur : Daily visual pre-shift inspection may indicate loose bolts. There may be loud popping sounds and excessive movement of the turntable if the turntable to rotation bearing bolts loosen.

Involved Components :

Component Name 1 : Mounting Bolt

Component Description : Mounting bolt for turntable to rotation bearing, XT Pro & Optima

Component Part Number : 480859

Component Name 2 : Mounting Bolt

Component Description : Mounting bolt for turntable to rotation bearing, Optima

Component Part Number : 616702

Supplier Identification :

Component Manufacturer

Name : Terex South Dakota, Inc

Address : 3140 15th Ave SE
Watertown South Dakota 57201

Country : United States

Chronology :

On July 17, 2023, the torque tool used to torque the XT Pro turntable to bearing bolts was found to be out of tolerance. The prior calibration check of that tool was on April 28, 2023. All machines in process were checked and corrected to have the correct torque. An engineering analysis was completed on October 4, 2023 and determined that the lower torque was inadequate. On October 5, 2023, the torque tool used to torque the Optima-TC55, Optima-HRX50, and Optima-HRX55 turntable to bearing bolts was found to be out of tolerance. The prior calibration check of that tool was August 25, 2023. Development of the field fix for the affected models began at that time. The potential unit list was developed by October 9, 2023. Although there are no reports of issues, the decision to recall was made on January 23, 2024.

Description of Remedy :

Description of Remedy Program : The turntable to rotation bearing bolts are to be torqued to the specified value at no cost to the owner. Terex will reimburse \$150 per machine to have the turntable to rotation bearing bolts torqued.

How Remedy Component Differs from Recalled Component : Recalled machines will not be visibly distinguishable from remedied machines.

Identify How/When Recall Condition was Corrected in Production :

On July 17, 2023, the torque tool calibration interval was changed from every 3 months to monthly. Starting October 9, 2023, the first machine at the start of each shift will have its rotation bearing bolt torque checked with a second torque tool to verify that it meets the minimum required torque. Also on October 9, 2023, the torque tools in question had their calibration interval reduced from every month to every two weeks.

Recall Schedule :

Description of Recall Schedule :

Dealer notification will begin by February 9, 2024. Owner notification will begin by February 23, 2024.

Planned Dealer Notification Date :

FEB 09, 2024 - NR

Planned Owner Notification Date :

FEB 23, 2024 - NR

* NR - Not Reported