

Part 573 Safety Recall Report

23V-702

Manufacturer Name : Altec Industries, Inc.**Submission Date :** OCT 19, 2023**NHTSA Recall No. :** 23V-702**Manufacturer Recall No. :** MAB 3120**Manufacturer Information :****Manufacturer Name :** Altec Industries, Inc.**Address :** 210 Inverness Center Drive
Birmingham AL 35242**Company phone :** 205 991 7733**Population :****Number of potentially involved :** 44**Estimated percentage with defect :** 4 %**Vehicle Information :****Vehicle 1 :** 2023-2023 Altec DC, DM**Vehicle Type :****Body Style :****Power Train :** NR**Descriptive Information :** The recall population was determined from a review of production records.**Production Dates :** APR 01, 2023 - OCT 06, 2023**VIN Range 1 : Begin :** NR**End :** NR☐ Not sequential**Description of Defect :****Description of the Defect :** The brake flange casing of the turntable rotation gearbox could have a defect in the casting. The defect in the material could reduce the safety factor of the brake flange casing and cause it to fail at high loads.**FMVSS 1 :** NR**FMVSS 2 :** NR**Description of the Safety Risk :** If the brake flange casing fails, the rotation gearbox will not hold the unit rotation position, allowing unintended rotation that could result in risk of injury or death to workers and others nearby.**Description of the Cause :** NR**Identification of Any Warning that can Occur :** There is no warning.**Involved Components :**

Component Name 1 : Gearbox

Component Description : Gearbox Assembly; Worm Gear

Component Part Number : 990115280

Supplier Identification :

Component Manufacturer

Name : Tulsa Winch

Address : 11135 S James Ave
Jenks Oklahoma 74037

Country : United States

Chronology :

A gearbox on an Altec digger derrick failed during production unit testing on July 13, 2023. The gearbox was returned to Tulsa Winch (TWG) for evaluation.

A second gearbox failed during unit testing in the same manner on August 7, 2023. All gearboxes supplied by TWG were placed on hold to avoid installing on any more units.

TWG inspected all Altec inventory and work in process with an ultrasonic tester on August 14, 2023. No other gearboxes were identified by the ultrasonic testing to be outside of the acceptable range. TWG continued to work with their supplier to identify the lot size of the affected component.

A third gearbox failed during unit testing on August 30, 2023. This gearbox had been within the original acceptable ultrasonic range causing the team to evaluate the ultrasonic testing values. The range of acceptable measurements was reduced.

After reviewing Altec's unit test procedures, TWG informed Altec that Altec's unit testing would cause any nonconforming product to fail.

On October 2, 2023, after reviewing field data, the Altec quality team identified a field return for a failed brake flange casing. The part was returned to TWG and confirmed to have ultrasonic measurements outside of the acceptable range. This gearbox had been installed in May of 2023.

On October 10, 2023, a potential field action investigation was opened to identify the potential field population of gearboxes that could have casings outside the specifications. After reviewing the production records, on October 13, 2023, Altec determined that a defect could exist on customer units.

There were no other warranty claims or field reports identified. There have been no accidents, injuries, or deaths related to this issue.

Description of Remedy :

Description of Remedy Program :	For the gearboxes within the affected serial number range, Tulsa Winch (TWG) will do an ultrasonic test on each gearbox to identify components whose ultrasonic measurements are outside of the acceptable range. Any gearbox outside of the acceptable range will be replaced. The recall remedy will be completed free of charge when presented for repair. The Altec Warranty Policy covers the recall remedy, including cases requiring reimbursement for the cost of obtaining a pre-notification remedy of the problem associated with this recall.
How Remedy Component Differs from Recalled Component :	The replacement gearboxes have casting material that meets the specifications of the design.
Identify How/When Recall Condition was Corrected in Production :	On August 30, 2023, Altec contained all units and issued a corrective action to Tulsa Winch (TWG). TWG completed ultrasonic testing on all gearboxes in containment. TWG added quality checks to prevent any gearboxes from being built with a defective brake flange casing. In addition to the check put in place at TWG, the brake flange casing manufacturer has added quality assurance checks to their process.

Recall Schedule :

Description of Recall Schedule :	Altec will issue MAB-3120 to the owners of the affected units. Altec does not have a dealer network and issues letters to owners only.
Planned Dealer Notification Date :	DEC 15, 2023 - DEC 15, 2023
Planned Owner Notification Date :	DEC 15, 2023 - DEC 15, 2023

* NR - Not Reported