

Part 573 Safety Recall Report

22V-047

Manufacturer Name : Seagrave Fire Apparatus, LLC**Submission Date :** FEB 01, 2022**NHTSA Recall No. :** 22V-047**Manufacturer Recall No. :** NR**Manufacturer Information :**

Manufacturer Name : Seagrave Fire Apparatus, LLC

Address : 105 East 12th Street

Clintonville WI 54929

Company phone : 715-823-2141

Population :

Number of potentially involved : 7

Estimated percentage with defect : 10 %

Vehicle Information :

Vehicle 1 : 2021-2021 Seagrave Capitol, Marauder

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style :

Power Train : NR

Descriptive Information : REV Group, Inc. reported to Meritor that four of its OEMs (Ferrara Fire Apparatus, Inc., Kovatch Mobile Equipment Corp, E-One Incorporated, Spartan Fire, LLC) had filed 573 Safety Defect Reports for fractured 180 series "Pinion broke off and damaged the spring brake air supply line." The REV Group indicated to Meritor that in two occurrences the fractured pinion hit a drop hose and resulted in unintentional application of the parking brake. Meritor is investigating the root cause as well as the impact to other customers, including those customers impacted by product sold in the replacement market. Although Meritor is still investigating the root cause, Meritor believes that if the defect is present the failure would manifest early in the service life of the pinion. Based on this assumption Meritor worked with REV Group to identify the recalled population as those pinions manufactured between January 1, 2021 and April 20, 2021. The recalled population does not differ from products built prior to January 1, 2021, however Meritor believes that products built prior to that date would have already failed if they had the defect. Pinions manufactured after April 20, 2021 are subject to 100% Ultrasonic Testing and Meritor is unaware of any field failure on pinions manufactured after that date.

Production Dates : JAN 01, 2021 - APR 20, 2021

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : 180 Series Drive Pinion fractured in the spline

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A fracture of the pinion may hit the brake drop hose which may

Description of the Safety Risk : unintentionally apply parking brake without detection or brake lights coming on, possibly resulting in a crash.

Description of the Cause : Meritor is still investigating the root cause. At this time Meritor believes the 180 series pinion and yoke spline interaction during the assembly process may result in a overstress condition that could lead to fracture.

Identification of Any Warning that can Occur : If the pinion fractures, in some cases the driver may hear an audible noise and feel the vehicle slowing down due to loss of propulsion from the drive axle.

Involved Components :

Component Name 1 : Rear Axle Carrier

Component Description : Pinion

Component Part Number : 180 Series

Supplier Identification :

Component Manufacturer

Name : Meritor, Inc

Address : 2135 West Maple Road
Troy Michigan 48084

Country : United States

Chronology :

December 30, 2021 - NHTSA notified Seagrave Fire Apparatus that Meritor named us as being supplied potential defective axles.

December 31, 2021- Seagrave reached out to Meritor for serial numbers of suspect axles and information on the defect.

January 28, 2022 - Meritor provided valid serial numbers to Seagrave Fire Apparatus.

January 31, 2022 - Based upon the results of the investigation, the Seagrave Product Safety Committee decided to conduct a safety campaign to address this condition. To date, there have been no reports of a crash caused by this condition.

Description of Remedy :

Description of Remedy Program :	Meritor will support recalls submitted by Seagrave and conduct ultrasonic test inspection and/or carrier replacement for the affected population. Defective units will be replaced at no cost to customer.
How Remedy Component Differs from Recalled Component :	The remedied component will pass ultrasonic test inspection.
Identify How/When Recall Condition was Corrected in Production :	100% Ultrasonic Testing was put in place April 20, 2021 at the Meritor production facility. 2301 parts have been inspected using ultrasonic testing. Two parts with defects have been found in-house since the ultrasonic testing has been implemented.

Recall Schedule :

Description of Recall Schedule :	Seagrave expects to notify affected Dealers and Owners no later than March 02, 2022.
Planned Dealer Notification Date :	FEB 25, 2022 - MAR 02, 2022
Planned Owner Notification Date :	FEB 25, 2022 - MAR 02, 2022

* NR - Not Reported