

Part 573 Safety Recall Report

22V-719

Manufacturer Name : Seagrave Fire Apparatus, LLC

Submission Date : SEP 26, 2022

NHTSA Recall No. : 22V-719

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 : 6

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2022-2022 Seagrave Marauder and Capitol

Vehicle Type : LOW VOLUME VEHICLES

Body Style : OTHER

Power Train : DIESEL

Descriptive Information : The recall population was determined by locating the suspect serial numbers provided by Meritor.

The recall population differs from products not included in the population due to not containing axles from the same manufacturer or do not contain affected parts per Meritor.

Production Dates : JAN 20, 2022 - SEP 26, 2022

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Description of Defect :

Description of the Defect : The suspect vehicles may contain tie rod clamps that were improperly heat treated and are prone to cracking.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The heat treat issue on the clamp can result in a crack on the clamp when the clamp bolt is torqued. This crack can lead to complete fracture of the clamp. Once the clamp is fractured, there is no longer clamp force on the tie rod cross tube that is securing the tie rod end.

If only one clamp on the tie rod assembly is fractured, then the cross tube cannot rotate based on the clamp force being provided by the opposite clamp. At this point, the tie rod end with the fractured clamp is being retained only by the threads in the cross tube. Over time, this could lead to thread damage and the tie rod end could separate from the cross tube. This separation

would most likely occur at low speeds, over rough roads or tight turns, when the tie rod loads are the highest. The separation would result in a partial loss of vehicle steering capability.

If both clamps on the tie rod assembly fracture, then the cross tube could start to rotate. This rotation would lead to the tie rod end unscrewing from the cross tube. The initial effect would be a vehicle out of alignment and eventually could result in the tie rod end separating from the cross tube. The separation would result in a partial loss of vehicle steering capability.

Dry park steer, rough roads, and low speed maneuvers are considered to be the scenarios where the tie rod will experience higher axial loads and when a tie rod end separation could occur.

Description of the Cause :
Identification of Any Warning that can Occur :

The clamps were improperly heat treated introducing excessive carbon. The cause of this excessive carbon was a damaged control board on one of the four furnaces at the forger.
Defective clamps might not be easily detected if the clamp is painted or the crack is small. Fractured clamps are easily detected.
A driver might be able to notice the additional play in the steering system or a misaligned vehicle before a separation occurs.

Involved Components :

Component Name 1 : Tie Rod End Clamp

Component Description : Clamps the drag link to the tie rod end to hold adjustment

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : Meritor Inc

Address : 22021 Skyway Church Rd.
Maxton North Carolina

Country : United States

Chronology :

September 15th, 2022 Seagrave Purchasing was notified about the defect and given potential serial numbers of axles that needed to be located.

September 21, 2022 Seagrave's Quality Control Department finished locating all of the suspect axles and provided the information to the Seagrave Product Safety Committee for review.

September 23, 2022 The Seagrave Product Safety Committee reviewed and approved to move forward with the recall.

Description of Remedy :

Description of Remedy Program : The remedy will follow the normal Seagrave Warranty Reimbursement process. The service center will submit a Warranty claim for approval and once approved will be shipped the proper replacement parts. The repair will take less than 1 hour to complete. Any customer that has had the remedy performed prior to the notification can submit their bill to Service@seagrave.com for reimbursement.

How Remedy Component Differs from Recalled Component : The new tie rod clamps were properly heat treated.

Identify How/When Recall Condition was Corrected in Production : All suspect axles in Seagrave possession had the clamps changed prior to shipment.

Recall Schedule :

Description of Recall Schedule : All notifications will be sent prior to November 18, 2022

Planned Dealer Notification Date : NOV 14, 2022 - NOV 18, 2022

Planned Owner Notification Date : NOV 14, 2022 - NOV 18, 2022

* NR - Not Reported