Part 573 Safety Recall Report 18V-322

Manufacturer Name : McNeilus Truck & Manufacturing, Inc.
Submission Date : MAY 16, 2018
NHTSA Recall No. : 18V-322
Manufacturer Recall No. : VSR-TSB-018

NHTSA
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Manufacturer Information :

Manufacturer Name : McNeilus Truck & Manufacturing, Inc.
Address : 524 County Road 34 East
P.O. Box 70 Dodge Center MN 55927
Company phone : 507-374-6321

Population :

Number of potentially involved : 1,669
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2008-2018 McNeilus Bridgemaster V
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : ALL
Power Train : NR
Descriptive Information : McNeilus Concrete Mixer Bridgemaster V trucks equipped with optional composite material hydraulic tanks with a filler neck that can overpressurize the tank.
Production Dates : MAR 14, 2008 - APR 19, 2018
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect : McNeilus has identified that some Concrete Mixer Bridgemaster V trucks equipped with an optional composite material hydraulic tank have a filler neck that can allow the hydraulic tank to overpressurize and rupture. The filler neck has a check valve with a short path to follow before sealing that allows the tank to completely seal during a pressure build up situation. When the tank becomes overpressurized it can rupture.

FMVSS 1 : NR
FMVSS 2 : NR

Description of the Safety Risk : If the check valve in the filler neck seals the composite material hydraulic tank too tightly and the tank is overpressurized the tank can rupture. When the tank ruptures it may cause hydraulic fluid to spill. The ruptured tank can cause injuries from plastic debris. The spilled hydraulic fluid could be hot which could cause burn injuries. If the vehicle is on the road when the tank ruptures, the tank pieces or spilled hydraulic fluid may cause a road hazard which could result in an injury.

Description of the Cause : Examples of situations that can cause pressure to build up in the hydraulic tank include overfilling the tank with hydraulic fluid and/or a leaking hydraulic

	cylinder seal that allows nitrogen from the accumulator to bleed into the tank raising the pressure in the tank.
Identification of Any Warning that can Occur :	N/A

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR
	NR
Country :	NR

Chronology :

Feb 2014 McNeilus learned a composite hydraulic tank had ruptured on a customer's truck which was attributed to the customer overfilling the hydraulic tank.

Jun 2014 McNeilus learned of a 2nd hydraulic tank failure which was again attributed to the customer overfilling the hydraulic tank.

May 2016 McNeilus learned of a 3rd hydraulic tank failure which was also attributed to fluid overfill.

Nov 2016 A McNeilus vehicle was in our Service Center to have a failed tank replaced when the new tank ruptured in our Service Center. Engineering began to investigate if there was another possible cause for tank overpressurization besides customer error in overfilling the tank.

Dec 2016 – Apr 2018

McNeilus determined that leaking cylinder seals on the Bridgemaster axle raise/lower cylinder could also cause overpressurization of the tank and began to determine how to prevent tank rupture despite overpressurization of the tank. McNeilus designed a different filler neck which would release the pressure from the tank if overpressurized and tested them on some vehicles. When the testing was successfully completed the new design filler neck was implemented fully into production on 4/19/2018.

May 2018 McNeilus is aware of 15 tank failures, none of which resulted in any injuries. After review, it was decided on 5/11/2018 to declare a recall to remedy the issue on all affected units.

Description of Remedy :

Description of Remedy Program :	The remedy consists of a new filler neck with a longer path for the check valve to follow before sealing. The new filler neck also has 4 additional vent holes to allow a constant path to atmosphere for pressure relief to prevent an overpressurization of the tank. The remedy also includes an on-product warning label describing the proper hydraulic tank fill method for concrete mixer units with a Bridgemaster axle, to avoid overfilling. The old filler neck bolts to the hydraulic tank and the remedy includes removing the old filler neck and replacing it with the new filler neck. McNeilus will provide a TSB which instructs the customer how to remove the old filler neck and replace it with the new filler neck. The customer will have no charge for this repair.
How Remedy Component Differs from Recalled Component :	The remedied filler neck has a total of 5 vent holes in the filler neck which can be seen when looking into the filler neck. The old filler neck only has one vent hole.
Identify How/When Recall Condition was Corrected in Production :	On 4/19/2018 the new filler neck was fully implemented into production. Vehicles with exit factory dates after 4/19/2018 have the new filler neck.

Recall Schedule :

Description of Recall Schedule :	McNeilus will notify affected customers with a letter once NHTSA approves the customer letter. McNeilus sells it products directly to US Customers and does not use dealers, therefore, there will be no dealer notification letter.
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	JUN 15, 2018 - JUN 15, 2018

* NR - Not Reported