Part 573 Safety Recall Report 19V-275

Manufacturer Name : PACCAR Incorporated
Submission Date : APR 05, 2019
NHTSA Recall No. : 19V-275
Manufacturer Recall No. : 19KWB

NHTSA
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Manufacturer Information :

Manufacturer Name : PACCAR Incorporated
Address : 777 106TH AVENUE NORTHEAST
BELLEVUE WA 98004
Company phone : 940 591 4220

Population :

Number of potentially involved : 1,837
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2018-2020 Kenworth T680 and T880
Vehicle Type :
Body Style :
Power Train : NR
Descriptive Information : Recall population consists of vehicles with particularized set of attributes - namely, tandem axles, with single axle equipped with park brakes, together with certain models of automated manual transmissions.
Production Dates : MAY 03, 2017 - FEB 27, 2019
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect : In cold weather conditions the signal from the park brake pressure switch to the transmission controller may be delayed. On vehicles equipped with tandem axles having a single axle equipped with park brakes and certain models of automated manual transmissions, it is possible for the signal delay to result in vehicle movement without warning.
FMVSS 1 : NR
FMVSS 2 : NR
Description of the Safety Risk : Unexpected vehicle movement may result in a crash or injury.
Description of the Cause : The pressure switch contains a polymer membrane which, when exposed to temperatures lower than 25°F, delays movement of the switch going from a pressurized condition (i.e. parking brake is released) to no pressure (i.e. parking brake is set).
The pressure switch in the park brake air circuit senses system pressure and uses this to signal to the cab controller whether the park brake is actuated or whether it is released. When the temperature inside the cab is lower than 25°F it is possible for there to be a delay in this switch signaling the state of the park

Identification of Any Warning that can Occur :	brakes. If this condition is present and if the transmission selector is not moved to the neutral position prior to the operator releasing the service brake it is possible for the transmission to initiate vehicle movement. The transmission selector will indicate a forward or reverse gear and the parking brake icon will not illuminate.

Supplier Identification :

Component Manufacturer

Name :	NR
Address :	NR
	NR
Country :	NR

Chronology :

February 27, 2019 - The Kenworth Field Service group received a report of vehicle lurching forward into a service bay door at the Kenworth Dealership in Peru, Illinois. The report included a video of the incident.

February 28, 2019 – Eaton representatives arrive in Peru to investigate and determined the transmissions did not receive a signal from the park brake circuit.
March 5, 2019 – The Kenworth Chillicothe manufacturing plant replicated the park brake switch delay on 10 vehicles. All 10 vehicles were exposed to overnight temperatures below 20°F. Two additional vehicles inside the factory were checked and neither demonstrated the signal delay.
March 5, 2019 – All affected trucks were held at the factory until they were reworked to install park brakes on the front tandem axle.
March 7, 2019 – PACCAR engineers arrive in Peru to examine the accident vehicle and successfully replicate the failure mode twice. On the third attempt the park brake switch operated normally likely because the cab HVAC system had elevated the temperature above 25°F.
March 12, 2019 – PACCAR Technical Center completed cold chamber testing of 8 park brake switches and confirmed a signal delay of about 0.4 seconds at 25°F. Testing also revealed that as the temperature decreased the switch delay increased.
March 19, 2019 – PACCAR Technical Center completed testing which confirmed a bobtail tractor without park brakes installed on the front tandem can move in this condition.
March 29, 2019 - Kenworth determined the condition constitutes a defect relating to motor vehicle safety.

Description of Remedy :

Description of Remedy Program :	Kenworth is in the process of developing a remedy for this defect.

How Remedy Component Differs from Recalled Component :	NR
Identify How/When Recall Condition was Corrected in Production :	NR

Recall Schedule :

Description of Recall Schedule :	Recall notifications will be sent to customers within 60 days.
Planned Dealer Notification Date :	APR 09, 2019 - APR 09, 2019
Planned Owner Notification Date :	JUN 03, 2019 - JUN 03, 2019

* NR - Not Reported