Part 573 Safety Recall Report

15V-108

Manufacturer Name : PACCAR Incorporated
Submission Date : OCT 30,2015
NHTSA Recall No. : 15V-108
Manufacturer Recall No. : 215-C

Manufacturer Information :

Manufacturer Name : PACCAR Incorporated
Address : 777 106TH AVENUE NORTHEAST
BELLEVUE WA 98004
Company phone : 999-999-9999

Population :

Number of potentially involved : 5,141
Estimated percentage with defect : 100

Vehicle Information :

Vehicle : 2009-2015 Peterbilt 320, 365, 367, 388 and 389
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style :
Power Train : NR
Descriptive Information : MY 2009-2015 Peterbilt model 320, 365, 367, 388 and 389 trucks with inadequately torqued axle tie rod end clamps.
Production Dates : JUL 21, 2008 - FEB 28, 2014

VIN (Vehicle Identification Number) Range

Begin : NR End : NR ☐ Not sequential VINs

Description of Defect :

Description of the Defect : The front axle tie rod end clamp bolts may be improperly torqued.
FMVSS 1 : NR
FMVSS 2 : NR
Description of the Safety Risk : Loss of a tie rod end clamp bolt connection may result in vehicle instability and increased risk of crash.
Description of the Cause : An incorrect torque value was provided in manufacturing specification.
Identification of Any Warning that can Occur : NR

Supplier Identification :

Component Manufacturer

Name : NR

Address : NR

NR

Country : NR

Chronology :

2/24/14 - Peterbilt (PB) Safety & Compliance learned that a customer had an issue in which tie rod end threads were pulled into the tie rod tube. PB Engineering initiated an investigation. Tie rod end parts from the field were sent to Dana for analysis.

2/25/14 - The investigation revealed the Dana D2000F, 5 inch drop front axle tie rod end clamp torque Manufacturing Specification (MS) document -- in effect since July 21, 2008 -- specified an incorrect torque value of 45-65 lb-ft. The document was corrected to specify 150-180lb-ft of torque.

2/26/14 - The new torque requirement was implemented, resulting in a clean point date of 2/26/14.

3/26/14 – Another report of a loose tie rod was received. Visual inspection showed that the tie rod end threads were corroded. Subsequent laboratory analysis showed no evidence that the tie rod ends separated from the tie rod.

6/27/14 - Dana reported that the part with the tie rod end clamp torqued to the incorrect value of 55lb-ft passed durability test (+/– 7500 lbs for 200,000 cycles). The test was continued for 500,000 cycles. Although the tie rod rotated one full rotation during the test, the tie rod end did not pull out of the tie rod.

10/10/14- Dana created procedure for analyzing tie rods returned from corrosive and non-corrosive environments.

10/28/14 to 1/22/15 - Dana tested and analyzed corrosive and non-corrosive environment tie rods that were received from multiple customer locations. Dana concluded the incorrect tie rod end clamp torque from the OEM was the root cause of failed tie rods. The PACCAR Technical Center completed a corrosion analysis test with the incorrect clamp torque and concluded that inadequate clamp torque can contribute to corrosion of tie rod ends. PB is not aware of any instance in which a tie rod end pulled out of the tie rod.

2/12/15 - PB Safety Committee determined that an inadequately torqued tie rod end clamp constitutes a defect relating to motor vehicle safety.

Description of Remedy :

Description of Remedy Program : The remedy will consist of replacing the front axle tie rod assembly on suspect vehicles where the OEM factory installed assembly has not been previously replaced.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : On 2/26/14, when the factory implemented the new corrected torque requirement, there were 26 suspect vehicles located at the factory. The axle tie rod end clamps were retorqued to the correct specification.

Recall Schedule :

Description of Recall Schedule : Customer notification letters will be sent within 60 days.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

* NR - Not Reported