Manufacturer Name: Volvo Trucks North America
Submission Date: JAN 14, 2019
NHTSA Recall No.: 19V-032
Manufacturer Recall No.: RVXX1901

Manufacturer Information:
Manufacturer Name: Volvo Trucks North America
Address: 7900 National Service Road
Greensboro NC 27409
Company phone: 800 528 6586

Population:
Number of potentially involved: 1,220
Estimated percentage with defect: 1%

Vehicle Information:
Vehicle 1: 2018-2019 Volvo VNL
Vehicle Type: BUSES, MEDIUM & HEAVY VEHICLES
Body Style: OTHER
Power Train: DIESEL
Descriptive Information: Certain VNL model vehicles manufactured from April 3, 2017 to June 11, 2018 with an automated manual transmission using certain Eaton ECA Clutches. Vehicles were selected based on information supplied by Eaton which included the part number (Eaton PN: 122002-35; Volvo PN: 21649090) and build dates of the transmissions in question.
Production Dates: APR 03, 2017 - JUN 11, 2018
VIN Range 1: Begin: NR End: NR

Description of Defect:
Description of the Defect: Reference 18E-102. Eaton determined that "An internal component within the clutch assembly may be outside of specification and fail, which in special circumstances could cause such clutch component to inhibit clutch departure."

Note: Information in quotes is from Eaton’s 573 and/or 577 documents. This applies to all sections within this defect report.

FMVSS 1: NR
FMVSS 2: NR

Description of the Safety Risk: "If clutch departure becomes inhibited, unintended vehicle motion could occur. Accordingly, the defect can cause a vehicle impact with prior warning."

Description of the Cause: The defect was caused by a failure to meet manufacturing specifications for a component with the clutch.

Identification of Any Warning: "The prior warnings may include increased vibration, noises, and/or rocking of the cab or, if the vehicle is equipped, an audible warning and/or a visual..."
that can Occur: display alternating between “AN” and the engaged gear (e.g., R, 1, 2, 3, etc.) on the instrument panel."

Supplier Identification:

Component Manufacturer
Name: Eaton
Address: 1000 Eaton Blvd
        Cleveland OHIO 44122
Country: United States

Chronology:
October 26, 2018 Volvo Trucks North America (Volvo) receives information from Eaton Corporation of a potential issue with certain clutches.

November 9, 2018: Phone conference between Volvo and Eaton Corporation; further sharing of information.

November 21, 2018 through December 10, 2018 Volvo investigation to determine affected vehicles and review product in factory

December 6, 2018: Volvo Regulatory Affairs and Purchasing department receives 577 letter from Eaton Corporation.

December 14, 2018 Draft defect reports prepared and information supplied to Volvo Regulatory Affairs for review.

January 14, 2019 Volvo submits defect report that outlines affected Volvo products and timeline for product repairs.

Description of Remedy:

Description of Remedy Program: Eaton will remedy the defect by providing a software update, but in certain circumstances at its option, Eaton may repair physical components in addition to providing a software update, replace the clutch, or provide a refund of the purchase price.

How Remedy Component Differs from Recalled Component:
See Eaton 573 report (NHTSA # 18E-102)

Identify How/When Recall Condition was Corrected in Production:
See Eaton 573 report (NHTSA # 18E-102). Note: Mack Production was not affected.
**Recall Schedule:**

<table>
<thead>
<tr>
<th>Description of Recall Schedule</th>
<th>Dealer Notifications are planned for Jan. 18, 2019. Owner letters will be mailed on or before February 14, 2019.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned Dealer Notification Date</td>
<td>JAN 18, 2019 - JAN 18, 2019</td>
</tr>
<tr>
<td>Planned Owner Notification Date</td>
<td>FEB 14, 2019 - FEB 14, 2019</td>
</tr>
</tbody>
</table>

* NR - Not Reported