

Part 573 Safety Recall Report

22V-691

Manufacturer Name : Navistar, Inc.**Submission Date :** DEC 28, 2022**NHTSA Recall No. :** 22V-691**Manufacturer Recall No. :** 22518**Manufacturer Information :****Manufacturer Name :** Navistar, Inc.**Address :** 2701 Navistar Drive
Lisle IL 60532**Company phone :** 331-332-1590**Population :****Number of potentially involved :** 7,918**Estimated percentage with defect :** 100 %**Vehicle Information :****Vehicle 1 :** 2018-2021 International LT**Vehicle Type :** BUSES, MEDIUM & HEAVY VEHICLES**Body Style :** OTHER**Power Train :** DIESEL

Descriptive Information :

- The suspect population is identified by models equipped with International A26 engines (A26 engine) and built outside of recall 21505 population.
- The inclusive dates of manufacturing were determined by certain engine serial numbers of the A26 engines built with suspect connecting rods.
- The vehicles in the suspect population were built with certain A26 engines built with suspect connecting rods; and all other vehicles either have A26 engines without suspect connecting rods or have other engine models.
- After recall 22518 (22V-691) was declared, it was determined that additional population subject to recall 21505 (21V-281) may not have been properly remedied. That additional population is now being added to the suspect population to recall 22518 (22V-691).
There are 2,431 LT series trucks in the suspect population.

Production Dates : MAR 15, 2017 - AUG 06, 2018**VIN Range 1 : Begin :** NR**End :** NR☐ Not sequential

Vehicle 2 : 2018-2021 International RH
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL

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• The inclusive dates of manufacturing were determined by certain engine serial numbers of the A26 engines built with suspect connecting rods.
• The vehicles in the suspect population were built with certain A26 engines built with suspect connecting rods; and all other vehicles either have A26 engines without suspect connecting rods or have other engine models.
• After recall 22518 (22V-691) was declared, it was determined that additional population subject to recall 21505 (21V-281) may not have been properly remedied. That additional population is now being added to the suspect population to recall 22518 (22V-691).
There are 1,634 RH series trucks in the suspect population.

Production Dates : MAR 15, 2017 - DEC 05, 2019

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 3 : 2018-2021 International HV
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models equipped with International A26 engines (A26 engine) and built outside of recall 21505 population.
• The inclusive dates of manufacturing were determined by certain engine serial numbers of the A26 engines built with suspect connecting rods.
• The vehicles in the suspect population were built with certain A26 engines built with suspect connecting rods; and all other vehicles either have A26 engines without suspect connecting rods or have other engine models.
• After recall 22518 (22V-691) was declared, it was determined that additional population subject to recall 21505 (21V-281) may not have been properly remedied. That additional population is now being added to the suspect population to recall 22518 (22V-691).
There are 3,451 HV series trucks in the suspect population.

Production Dates : JUN 22, 2017 - FEB 05, 2020

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Vehicle 4 : 2018-2020 International HX
 Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
 Body Style : OTHER
 Power Train : DIESEL

Descriptive Information : • The suspect population is identified by models equipped with International A26 engines (A26 engine) and built outside of recall 21505 population.
 • The inclusive dates of manufacturing were determined by certain engine serial numbers of the A26 engines built with suspect connecting rods.
 • The vehicles in the suspect population were built with certain A26 engines built with suspect connecting rods; and all other vehicles either have A26 engines without suspect connecting rods or have other engine models.
 • After recall 22518 (22V-691) was declared, it was determined that additional population subject to recall 21505 (21V-281) may not have been properly remedied. That additional population is now being added to the suspect population to recall 22518 (22V-691).
 There are 402 HX series trucks in the suspect population.

Production Dates : NOV 07, 2017 - DEC 10, 2019

VIN Range 1 : Begin :

NR

End : NR

☐ Not sequential

Description of Defect :

Description of the Defect : The bushing material in the small end bore (wrist pin of rod) of the connecting rod over time may develop cracks or lose chunks of bushing material and could lead to connecting rod engine failure.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Connecting rod failure in some cases can result in engine shutdown with minimal warning; while the driver can usually pull the truck to the side of the roadway, a stalled vehicle in or near the roadway can increase the risk of a vehicle crash.

Description of the Cause : The wrist pin bore of the connecting rod was machined outside the design tolerance for straightness.

Identification of Any Warning that can Occur : The operator may hear a knocking noise, notice an engine warning light, or experience rough idle.

Involved Components :

Component Name 1 : Connecting rod

Component Description : Connects piston to crankshaft

Component Part Number : International P/N 7096533C91

Supplier Identification :

Component Manufacturer

Name : Camtac Manufacturing

Address : 148 Arrow Rd.

Guelph, ON, Canada Foreign States N1K 1T4

Country : Canada

Chronology :

- 06/17/2022 – Navistar Aftersales, Compliance, and Reliability & Quality (R&Q) meet to discuss A26 engine connecting rod failures on engines occurring outside of recall 21505 and initiates root cause analysis investigation.
- 08/11/2022 – Navistar concludes its root cause investigation of connecting rod failures outside the previous recall population.
- 08/25/2022 – Root cause analysis is presented to Navistar's Compliance Committee and requests the team to determine the impact to International vehicles.
- 09/07/2022 – Navistar finalizes the suspect population of vehicles outside the previous safety recall.
- 09/08/2022 – Navistar declares a Safety Recall.
- 09/23/2023 – Navistar Programming Support determines new electronic service tool Service Diagnostic Software is not enabling the Knock detection software parameters for vehicles in previous Safety Recall 21V281
- 11/01/2022 – Navistar Programming Support updates Service Diagnostic Software released to International dealers.
- 11/02/16 – 12/16/22 continuing investigation into service tool yields additional population subject to 21V281 may not have been properly remedied.
- 12/21/2022 – Navistar approves additional population to be added to Safety Recall 22V691. Customer notices will be mailed and vehicles will be properly remedied.

Description of Remedy :

- Description of Remedy Program :
- The remedy will involve installing a new knock detection system software to warn the driver prior to engine connecting rod failure. The system will light a red engine warning light giving the driver an indication to stop the engine as soon as it can safely be done. Engines found with a suspect connecting rod will be repaired under warranty.
 - Navistar's plan for reimbursement of pre-notification remedies, on file with NHTSA and dated 05/06/2022, applies and reimbursement instructions will be included in the customer notification.

How Remedy Component Differs from Recalled Component : The remedy will include the installation of a new knock detection system software, which will activate the engine malfunction indicator lamp. Vehicles without this remedy either had a less effective detection system, or no detection system at all.

Identify How/When Recall Condition was Corrected in Production : 11/18/2019 – Navistar engine production changed to Albon Engineering and Manufacturing as the new connecting rod supplier starting with ESN 4521933.

Recall Schedule :

Description of Recall Schedule : It is estimated that the customer and dealer notification letters will be mailed by 01/31/2023.

Planned Dealer Notification Date : JAN 31, 2023 - JAN 31, 2023

Planned Owner Notification Date : JAN 31, 2023 - JAN 31, 2023

* NR - Not Reported