

Part 573 Safety Recall Report

18V-299

Manufacturer Name : Nova Bus
Submission Date : MAY 07, 2018
NHTSA Recall No. : 18V-299
Manufacturer Recall No. : To be determined

**Manufacturer Information :**

Manufacturer Name : Nova Bus
Address : 1000 Industriel Blvd
 Saint-Eustache Quebec, Canada 00 JR7
 5A5
Company phone : 450-472-6410

Population :

Number of potentially involved : 1,058
Estimated percentage with defect : 40 %

Vehicle Information :

Vehicle 1 : 2015-2017 Nova Bus LFS, LFS Artic
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : DIESEL

Descriptive Information : Certain 2015, 2016, and 2017 LFS and LFS Artic model vehicles manufactured from January 2015 to December 2016 with certain ZF axles incorporating radial air disk brake calipers manufactured by Knorr-Bremse

Production Dates : JAN 05, 2015 - DEC 30, 2016

VIN Range 1 : Begin : NR **End :** NR Not sequential

Description of Defect :

Description of the Defect : Improper surface roughness of a guide pin in radial brake calipers supplied by Knorr-Bremse may cause increased friction, creating noise and, if undetected, potentially leading to breaking of the brake carriage guide pin support bolt, uneven brake pad wear, tapered wear of the brake pads, and brake pad contact with the surface of the wheel.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If undetected, the vehicle could suddenly lose tire pressure or brake function, increasing the risk of collision. The vehicle may also experience reduced parking brake functionality.

Description of the Cause : Materials non-conformance

Identification of Any Warning that can Occur : Noise may be audible from the location of the axle.

Supplier Identification :**Component Manufacturer**

Name : ZF North America, Inc.

Address : 15811 Centennial Drive
Northville MICHIGAN 48168

Country : United States

Chronology :

August 30, 2017 Nova Bus Service department notifies ZF of a report involving a Canadian vehicle with potential brake caliper pin issue. Nova Bus asks ZF to investigate.

November 10, 2017 Nova Bus contacts ZF to follow-up on investigation

February 19, 2018 ZF and Nova Bus meet to discuss and share information/ findings

February 27, 2018 Nova Bus Service department notifies Nova Bus Legal of potential safety-related defect. Investigation opened

March 5, 2018 Nova Bus Legal department raises case as a potential safety-related defect to Volvo Group North America Product Safety Working Group.

April 5, 2018 Nova Bus receives report with a new failure mode (i.e. guide pin breaks and allows caliper to rotate and damage the wheel) from a customer in Canada. Nova Bus notifies ZF. ZF deploys team to investigate.

April 19, 2018 Nova Bus receives ZF findings.

April 23, 2018 Meeting between representatives of ZF, Nova Bus, and Volvo Group North America's VP of Regulatory Affairs

April 23, 2018 Volvo Group North America's VP Regulatory Affairs sends an email to ZF sharing Volvo's opinion- that the issue is a potential safety-related defect.

April 27, 2018 ZF provides Nova Bus a copy of the motor vehicle equipment 573 defect report

May 3, 2018 ZF meets with Nova Bus to share information on the voluntary recall

May 8, 2018 Nova Bus submits 573 Report

Description of Remedy :

Description of Remedy Program : ZF has provided Nova Bus a list of the axle serial numbers that contain suspect brake calipers. From production records we were able to identify the VINs that have these axles.

Nova Bus will perform a voluntary safety recall. Nova Bus and ZF are working to determine the inspection and repair procedures. This will communicate to NHTSA as soon as it is available.

Pre-notification repairs will be addressed according to Volvo's General Reimbursement Plan for Pre-notification Remedies that is on file with NHTSA.

How Remedy Component Differs from Recalled Component : The surface is according to specification, which allows the guide pin to float according to design.

ZF axle models provided to Nova Bus are AV-132II/AV133 Drive axle and AVN-132 center axle.

Identify How/When Recall Condition was Corrected in Production : Based on the VIN's that were determined by the serial numbers, the clean point is January 2017.

Recall Schedule :

Description of Recall Schedule : Nova Bus will conduct a voluntary safety recall. Nova Bus sales direct to the customer, so there are no dealers. Hence there will be no dealer notification.

Owner Notification letters will be mailed within 60 days of this notification.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : JUL 06, 2018 - JUL 06, 2018

* NR - Not Reported