

Part 573 Safety Recall Report

18V-033

Manufacturer Name : KTM North America, Inc.

Submission Date : FEB 13, 2018

NHTSA Recall No. : 18V-033

Manufacturer Recall No. : TB1805



Manufacturer Information :

Population :

Manufacturer Name : KTM North America, Inc.

Number of potentially involved : 2,361

Address : 1119 Milan Avenue

Estimated percentage with defect : 1 %

Amherst OH 44001

Company phone : 440-985-3553

Vehicle Information :

Vehicle 1 : 2015-2016 KTM 1290 Super Duke R ABS

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : 1301

Production Dates : APR 21, 2015 - OCT 27, 2015

VIN Range 1 : Begin : VBKV39403FM931555 End : VBKV39400GM937525 ☒ Not sequential

Vehicle 2 : 2016-2016 KTM 1290 Super Duke R SE ABS

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : 1301

Production Dates : FEB 01, 2016 - FEB 03, 2016

VIN Range 1 : Begin : VBKV39402GM941916 End : VBKV39403GM941830 ☐ Not sequential

Vehicle 3 : 2016-2016 KTM 1290 Super Duke GT ABS

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : 1301

Production Dates : MAR 16, 2016 - MAY 12, 2016

VIN Range 1 : Begin : VBKV69401GM945673 End : VBKV69402GM951658 ☒ Not sequential

Vehicle 4 : 2017-2018 KTM 1290 Super Duke R

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : 1301

Production Dates : NOV 07, 2016 - NOV 15, 2017

VIN Range 1 : Begin : VBKV39400HM958876 End : VBKV39408JM980954 ☒ Not sequential

Vehicle 5 : 2017-2018 KTM 1290 Super Duke GT

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : 1301

Production Dates : NOV 07, 2016 - OCT 10, 2017

VIN Range 1 : Begin : VBKV69400HM953863 End : VBKV69409JM980176 ☒ Not sequential

Description of Defect :

Description of the Defect : Crack generation on the front brake master cylinder PPS (polyphenilene sulphide) piston connecting the internal pressure area to the external surface. The consequence is that the front brake may not participate in stopping the bike properly. The rear brake is not affected and works correctly.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If a crack through the piston occurs, the fracture connects the pressure chamber with the open air: in this condition the brake master cylinder is not able to generate enough pressure in the system and may reduce the braking system's effectiveness. As a result, braking can only be performed with the rear brake which may increase stopping distance significantly, which may increase the risk of injury to the rider and/or damage to property.

Description of the Cause : The anisotropy of the piston material, in addition to an unfavorable geometric distribution of porosity generated during the injection process, could lead to the failure of the component (crack generation) subject to stress typical of mission profiles such as: use of the vehicle on race tracks, frequent ABS interventions, or vehicle ground fall.

Identification of Any Warning that can Occur : The failure may occur without any warning to the driver even though we cannot exclude a significant loss in brake effectiveness as an early symptom.

Supplier Identification :

Component Manufacturer

Name : Brembo S.p.A

Address : Via Brema 25

Curno FOREIGN STATES

Country : Italy

Chronology :

October 2016 – Brembo now realizes that the above described condition may have first occurred during vehicle track use. No injuries reported. Brembo commenced the failure investigation.

February 2017 - Since it was not possible to identify the failure mode during the investigation jointly conducted with the motorcycle manufacturer the investigation was concluded. Monitoring of the field has been agreed.

June 2017 – A second field occurrence resulted in an investigation in which Brembo decided to introduce a preventative containment action on production replacing the PPS piston with an aluminium one (lead-time implementation of 2 months).

October 2017 - Two additional field occurrences were reported (both on the motorbikes track). No injuries have been reported so far.

November 2017 – Investigation closed: the root cause was identified as above (please refer to the “Describe the cause”).

December 2017 - Brembo decided to proceed with a word-wide safety recall campaign.

Description of Remedy :

Description of Remedy Program : Official dealers will replace the PPS piston with an aluminum one.

How Remedy Component Differs from Recalled Component : The new piston is aluminum.

Identify How/When Recall Condition was Corrected in Production : The new piston is made from aluminium and machined from bar, guarantees a higher strength material as well as the absence of any possibility of porosity. This solution, already validated and in production for the past fifteen years, has proven to be fully reliable. In production line Brembo is now supplying the complete aluminum front brake master cylinder's piston since September 2017.

Recall Schedule :

Description of Recall Schedule : KTM North America is notifying all registered owners of the above affected motorcycle by mail and all authorized KTM dealers via KTM Dealernet, an internet based dealer communication system.

Planned Dealer Notification Date : FEB 12, 2018 - NR

Planned Owner Notification Date : MAR 09, 2018 - NR

* NR - Not Reported