

Part 573 Safety Recall Report

21E-005

Manufacturer Name : Brembo S.p.A.

Submission Date : JAN 25, 2021

NHTSA Recall No. : 21E-005

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Brembo S.p.A.

Address : Via Brembo 25

Curno (Bg) 00 24040

Company phone : 0356055589

Population :

Number of potentially involved : 28,300

Estimated percentage with defect : 1 %

Equipment Information :

Brand / Trade 1 : Brembo Pads

Model : BRM10B

Part No. : 07988236/07B80923

Size : NR

Function : Braking

Descriptive Information : This recall campaign refers to NHTSA Part 573 filing 20 V-236 / 20V-232 / 20V - 245 reported by Ducati / Triumph / Piaggio that are the only OEMs using such components both in first equipment and spare parts. Recall campaign population has been defined based on braking pads manufacturer (Tungaloy Corporation) production data and differ from other products by compound composition. Numbers of affected equipments (pads) are the results of the number of products (vehicles) and specific model/model year combination already listed in the above mentioned NHTSA Part 573 filings: 20V-236/20V-232/20V-245

Production Dates : JAN 01, 2016 - FEB 29, 2020

Description of Defect :

Description of the Defect : Tungaloy Pads could have potential issues involving detachment of brake pad friction material from the back plate, especially but not exclusively when used in a corrosive environment. As a consequence, the vehicle front brake performance could be compromised in vehicles with Tungaloy Pads equipment.

FMVSS 1 : 122 - Motorcycle brake systems

FMVSS 2 : NR

Description of the Safety Risk : In case of detachment of Tungaloy Pads friction material from the back plate, the distance between the braking plate and disc cannot be balanced with a single action on the brake master cylinder. As a consequence, potentially

defective pads can lead to an inadequate deceleration of the vehicle. Systems assembled with unaffected brake pads maintain their required performance. However, there may be an increased risk of driver injury and/or vehicle damage even if only one brake has an affected brake pad.

Description of the Cause : The Pads' manufacturer Tungaloy has advised that the root cause is linked to the following factors: (i) high concentration of Nickel in the compound does not favor the sintering process on the back plate and consequently causes a reduction of the adhesive area percentage; (ii) high porosity of the compound that allows infiltration of salt and water at the interface between the compound and back plate; and (iii) microcracks on the back plate copper surface which promote the penetration of salt and water. As a result, the level of corrosion of Tungaloy Pads is higher than the maximum acceptable and indicated in the related drawing. This may result in high corrosion of the Tungaloy Pads and, as a consequence, the detachment from the back plate during vehicle use, specifically in corrosive environment.

Identification of Any Warning NR
that can Occur :

Involved Components :

Component Name : Pads

Component Description : Motorcycle Brake Pads

Component Part Number : 07988236

Component Name : Pads

Component Description : Motorcycle Brake Pads

Component Part Number : 07B80923

Supplier Identification :

Component Manufacturer

Name : Tungaloy Corporation

Address : 11-1 Yoshima - Kogyodanchi Iwaki –
Fukushima Foreign States 970-1144

Country : Japan

Chronology :

September 2019 - Brembo informed by Triumph of a Tungaloy Pads friction material detachment event in the field. No injuries reported.

October 2019-Brembo receives the brake pad from its customer and initiates failure investigation.

November 2019-Brembo provides the brake pad received from its customer to the brake pad manufacturer, Tungaloy Corporation, in order to analyze the sample together with the brake pad for further examination and analysis including with reference to rust ratio test.

January 2020-Brembo informed by its customer of other 12 episodes of Tungaloy Pads friction material separation during vehicle use. No injuries reported. Brembo continues to support Tungaloy Corporation in searching the root cause.

End of March 2020-Investigation closed: the root cause was identified as above (please refer to "Describe the cause" above).

Tungaloy informed Brembo that a world-wide safety recall campaign was necessary for all Tungaloy Pads manufactured since January 2016.

In April 2020 Brembo notified his customers the need for a recall campaign

Description of Remedy :

Description of Remedy Program :	Official dealers will replace all Tungaloy Pads with other spare pads presenting an improvement of the interlayer with positive results from rust ratio testing. Tungaloy Corporation has tested these new brake pads according to the proper procedure of rust ratio test and advised that the results are compliant with the tolerance threshold. This replacement will be free of charge for customers.
How Remedy Component Differs from Recalled Component :	Front brake pads have been replaced by spare parts pads. New front brake pads have a different part numbers (07988239/07B80927)
Identify How/When Recall Condition was Corrected in Production :	Tungaloy Corporation is manufacturing new brake pads with the new solution as indicated above starting from March 2020.

Recall Schedule :

Description of Recall Schedule :	Recall Campaigns have been initiated in May 2020 by the three OEMs (Ducati, Piaggio, Triumph) using such components through their dealerships. All information regarding such Recall Campaigns are included in the above-mentioned NHTSA Part 573 filings: 20V-236/20V-232/20V-245
Planned Dealer Notification Date :	NR - NR
Planned Owner Notification Date :	NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Triumph Motorcycles America, LTD
Address : 100 Hartsfield Centre Parkway
Suite 200 Atlanta GA 30354

Country : US
Company Phone : NR

Name : Ducati North America
Address : 448 E. Middlefield Rd
Mountain View CA 94043

Country : US
Company Phone : NR

Name : Piaggio Group Americas. Inc.
Address : 257 Park Avenue South
4th Floor New York NY 10010

Country : US
Company Phone : NR

* NR - Not Reported