




Curno, 17 July 2018

Messers  
**Ducati Motor Holding S.p.A.**  
**Via Antonio Cavalieri Ducati 3**  
**40132 Bologna (BO)**

Via e-mail at : 

**Re.: Federal Mogul Italy S.r.L. Brake Pads Made for Brembo**

Dear Sir or Madam,

Brembo S.p.A. ("Brembo") has become aware of two occurrences of potential friction material detachment from brake pads manufactured by Federal Mogul Italy S.r.l. (supplier batch 672, "FMI Batch 672") for Brembo.

Brembo therefore requests you immediately discontinue the sale of motorbikes equipped with FMI Batch 672 brake pads and voluntarily conduct a Safety Recall campaign of all vehicles containing FMI Batch 672 brake pads and replace such brake pads.

We also request that you communicate the information set forth below as required by law in your communication with relevant authorities in the United States and other countries. In your communications, please use the language set forth below. Any changes should be previously discussed with Brembo.

**Describe the defect or noncompliance:** Brembo brakes equipped with Federal Mogul Italy S.r.l. brake pads (in FMI Batch 672), may have potential issues involving detachment of brake pad friction material from the back plate. As a consequence, vehicle brake performance could be compromised in vehicles with FMI Batch 672 equipment brake pads.

**Describe the safety risk:** In case of detachment of brake pad 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, brake calipers fitted with potentially defective pads may not participate in deceleration of the vehicle. Motorbike design requires independent front and rear brake systems: systems assembled with unaffected brake pads maintain their required performance. There may be an increased risk of driver injury and/or vehicle damage even if only one brake has an affected brake pad.

**BREMBO S.p.A.**

**Sede legale**

**Sede amministrativa e uffici**

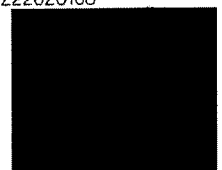
[www.brembo.com](http://www.brembo.com)

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**Estimated percentage of product involved with defect:** 3% of FMI Batch 672 which consists of 3,026 pads or about 100 potentially defective pads.

**Describe the cause:** Brembo has been advised that the issue was caused by a second thermal treatment during the manufacture of brake pads by Federal Mogul Italy S.r.l. FMI Batch 672, which were not manufactured in accordance with the appropriate procedures, as a result of human error. - This second treatment exposed some brake pads to higher temperatures than Federal Mogul Italy S.r.l. intended to be used for this piece of equipment., As a result, it potentially created lower adherence of friction material that may result in detachment of the brake pad friction material from the back plate during vehicle use.

**Identify any warning which can precede or occur:** The failure may occur without any warning to the driver.

**Chronology**

March 2018-- Brembo became aware of a potential Federal Mogul Italy S.r.l. brake pad friction material detachment event during vehicle track use. No injuries were reported. Brembo initiated failure investigation together with the brake pad manufacturer, Federal Mogul Italy S.r.l.

April 2018- Brembo became aware of a second episode of potential Federal Mogul Italy S.r.l. brake pad friction material separation during vehicle track use. No injuries were reported. Brembo analyzed the second sample and provided it to Federal Mogul Italy S.r.l. together with the brake pad for further examination and analysis.

May 2018-- Brembo verified that the calipers in use during those incidents are not defective. Brembo started another audit and continued to support the Federal Mogul Italy S.r.l.in searching the root cause.

July 2018- Investigation closed: the root cause was identified as above (please refer to the "*Describe the cause*").

- Brembo and Federal Mogul Italy S.r.l. decide to proceed with a world-wide safety recall campaign.

**Identify the Remedy** Official dealers will replace the pads inside batch no. 672 with other spare pads (same p/n - different supplier batch). This replacement will be free of charge for customers.

**Identify and describe how and when the recall condition was corrected in production**

Federal Mogul Italy S.r.l. supplier batch 672 line production is now shut down and production has been moved to a new line equipped with temperature control from June 2018. Federal Mogul Italy S.r.l. has advised that this cures the potential issue.

**Contact of reference**



Yours sincerely,

**Brembo S.p.A.**



**Brembo S.p.A.** /

