

Part 573 Safety Recall Report

22V-217

Manufacturer Name : Piaggio Group Americas, Inc.

Submission Date : JUN 02, 2022

NHTSA Recall No. : 22V-217

Manufacturer Recall No. : PP2ZZQ2201



Manufacturer Information :

Manufacturer Name : Piaggio Group Americas, Inc.

Address : 257 Park Avenue South
4th Floor New York NY 10010

Company phone : 949-645-0030

Population :

Number of potentially involved : 27

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2021 Piaggio MP3 500 HPE

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : Brake system inefficiency: the inefficiency is a consequence of an excessive stroke on brake levers/pedal, and it occurs after an extended period of non-use. We have received warranty claims from our dealer network that the front and in some cases rear brake levers have extended play after a prolonged period of inactivity. Excessive play on brake levers can cause reduced braking efficiency consequently.

Introduction of dehydrogenation (DH) treatment on mass production, also confirmed from the absence of warranties in the field.

The vehicles that are not affected have brake pipes with DH treatment.

Production Dates : JUL 10, 2020 - DEC 18, 2020

VIN Range 1 : Begin : ZAPTA10X5L5000143 **End :** ZAPTA10XXM5000172 ☒ Not sequential

Description of Defect :

Description of the Defect : Brake system inefficiency: the inefficiency is a consequence of an excessive stroke on brake levers/pedal, and it occurs after an extended period of stop.

FMVSS 1 : 105 - Hydraulic and electric brake systems

FMVSS 2 : 106 - Brake hoses

Description of the Safety Risk : An increase in the brake lever/pedal travel required to decelerate the vehicle can cause reduced braking efficiency that could potentially cause loss of control or a crash.

Description of the Cause : Non-conformity of the zinc plating surface treatment on the brake hose terminals.

The hydrogen presents in the hose terminals is released as a bubble causing an

inefficiency on the brake system.

Identification of Any Warning that can Occur : Excessive stroke in the brake levers/pedal with low pressure could be found after long periods of inactivity.

Involved Components :

Component Name 1 : Brake Pipe LH (rigid brake line)

Component Description : Brake Pipe LH (rigid brake line)

Component Part Number : 1C005727R

Component Name 2 : Brake Pipe RH (rigid brake line)

Component Description : Brake Pipe RH (rigid brake line)

Component Part Number : 1C005728R

Component Name 3 : Brake Pipe

Component Description : Brake Pipe

Component Part Number : 1C005541

Component Name 4 : Brake Pipe

Component Description : Brake Pipe

Component Part Number : 1C005538

Component Name 5 : Brake Pipe rear valve/ABS HECU

Component Description : Brake Pipe rear valve/ABS HECU

Component Part Number : 1C005729R

Component Name 6 : Brake Pipe front valve/ABS HECU

Component Description : Brake Pipe front valve/ABS HECU

Component Part Number : 1C005730R

Component Name 7 : Brake Pipe

Component Description : Brake Pipe

Component Part Number : 1C005965

Component Name 8 : Bake Pipe

Component Description : Bake Pipe

Component Part Number : 1C005539

Component Name 9 : Brake Pipe

Component Description : Brake Pipe

Component Part Number : 1C005731R

Component Name 10 : Brake Pipe

Component Description : Brake Pipe

Component Part Number : 1C005546

Component Name 11 : Brake Pipe (Pump RH/front valve)

Component Description : Brake Pipe (Pump RH/front valve)

Component Part Number : 1C005540

Component Name 12 : Brake Pipe (Pump LH/front valve)

Component Description : Brake Pipe (Pump LH/front valve)

Component Part Number : 1C005537

Supplier Identification :

Component Manufacturer

Name : JJUAN S.A

Address : Poligono Industrial Camí Ral
Gava Foreign States 8850

Country : Spain

Chronology :

Details about chronology of principal events are listed here below:

05/25/2021 - Warranty analysis monitoring started

10/25/2021 - Piaggio & C. SpA After sales informs Product Quality about n°1 case relevant to safety ZAPTA210000009345

07/12/2021 – Gas analysis in SEA MARCONI (on dealer vehicle stock) Air extracted from brake lines and gas dissolved in brake fluid (H2 found)

12/15/2021 – Testing Hot Extraction (metodo Letomec) for hydrogen release analysis (from dealer stock) from the banjo (Piaggio Internal Laboratory), H2 not found, probably already released in brake fluid.

02/14/2022 – Gas analysis c/o SEA MARCONI (on vehicle ZAPTA210000009345) Air analysis from brake system and gas dissolved in the brake fluid analysis (H2 found)

03/11/2022 – Notification date to J.Juan (supplier) about the issue – Piaggio & C. S.p.A. notified supplier of the need to start a safety recall on network

03/29 /2022: P&C Spa notified network of start of Safety Recall

Warranty monitoring; from 05/25/2021 there have been new warranties about to excessive play in the brake levers/pedal after the vehicle has been sitting for an extended period. 1268 warranty claims Worldwide between 05/08/2020 and 11/30/2020. 12,462 units affected Worldwide.

4 claims were entered in the USA. There were no reported cases of injury or death.

Description of Remedy :

Description of Remedy Program : REASON FOR THIS RECALL Piaggio has decided that a defect, which relates to motor vehicle safety, exists in a specific range of Piaggio scooters as noted below • 2020 MP3 500 HPE models • 2021 MP3 500 HPE models In the affected range, Piaggio has identified the possibility of a non-conformity in the zinc plating surface treatment on the brake hose terminal fittings. This can cause a chemical reaction with the brake fluid itself and result in excessive travel from the front or rear brake lever and pedal. This situation can cause limited braking and stopping ability and can lead to a loss of control or a crash. According to vehicle registration records, you are the owner of a vehicle that falls within this affected VIN range. WHAT WE WILL DO To address this situation, Piaggio will conduct a recall of the models within the affected VIN range. Piaggio, through the qualified dealer network will perform a complete brake system flush. This repair campaign will eliminate any potential safety risk. The work required by this recall may be completed by your qualified Piaggio/Vespa dealer at no charge to you for the required parts and labor. All vehicles affected by this recall were under warrantee so no refund will be provided.

How Remedy Component Differs from Recalled Component : DH treatment on brake pipes.

Identify How/When Recall Condition was Corrected in Production : Internal definite solution: DH treatment on brake pipes (from Jan-21)

Recall Schedule :

Description of Recall Schedule : We will post the technical bulletin for our dealers no later than 04/11/2022 and we will send the customer letters before or by 04/18/2022.

Planned Dealer Notification Date : APR 11, 2022 - APR 11, 2022

Planned Owner Notification Date : APR 18, 2022 - APR 18, 2022

* NR - Not Reported