

THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽¹⁾ TO A COMPONENT TYPE-APPROVAL CERTIFICATE IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM FOR TWO-WHEEL MOPEDS PURSUANT TO COUNCIL DIRECTIVE 97/24/EC – CHAPTER 9 AS LAST AMENDED BY 2009/108/EC.

EC Component type-approval No: e11*97/24/9/III*2009/108*0925*00

Report No: 14-00041-CM-MIL-00, by technical service: TÜV SÜD Auto Service GmbH, date: 10 November 2014

Reason(s) for extension: Not applicable

- 1. Make of exhaust: Termignoni
- 2. Type of exhaust: GI02
- 3. Name and address of manufacturer: Termignoni S.p.A. Via della Rampina, 1 15077 Predosa (AL) Italy
- 4. If applicable, name and address of the manufacturer's authorized representative: Not applicable
- 5. Make(s) and type(s) and any variant(s) or version(s) of the vehicle(s) for which the exhaust system is designed: See list enclosed
- 6. Date system submitted for testing: 10 November 2014
- 7. Component type-approval GRANTED⁽¹⁾



- 8. Place: BRISTOL
- 9. Date: 03 DECEMBER 2014

my Signature: 10.

A.W.STENNING Head of Technical and Quality Support Group

(1) Delete as appropriate









THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11*97/24/9/III*2009/108*0925*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: Not applicable

Total number of sheets: 08 (Eight)

Reasons for Revision:

Not applicable

Revision date & Office stamp



EAQ310667

An executive agency of the Department for Transport April 2013 Revision 3



Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2009/108/EC)

| 1. | Make (trade name of manufacturer): | Termignoni |
|----|---|---|
| 2. | Type and general commercial description: | GI02 |
| 3. | Name and address of manufacturer: | Termignoni S.p.A. via della Rampina, 1 I-15077 Predosa (AL) |
| 4. | Name and address of manufacturer's authorized representative: | Not applicable |
| 5. | Parts list: | Notice enclosure 1 of the test report |
| 6. | Make and motorcycle type of the field of appication: | See list enclosed |
| 7. | Restriction and instructions for installing: | Notice assembly manual and field of application |

Further details according to directive 97/24/EC, chapter 9, annex III, enclosure 2 A including amendment 2009/108/EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).



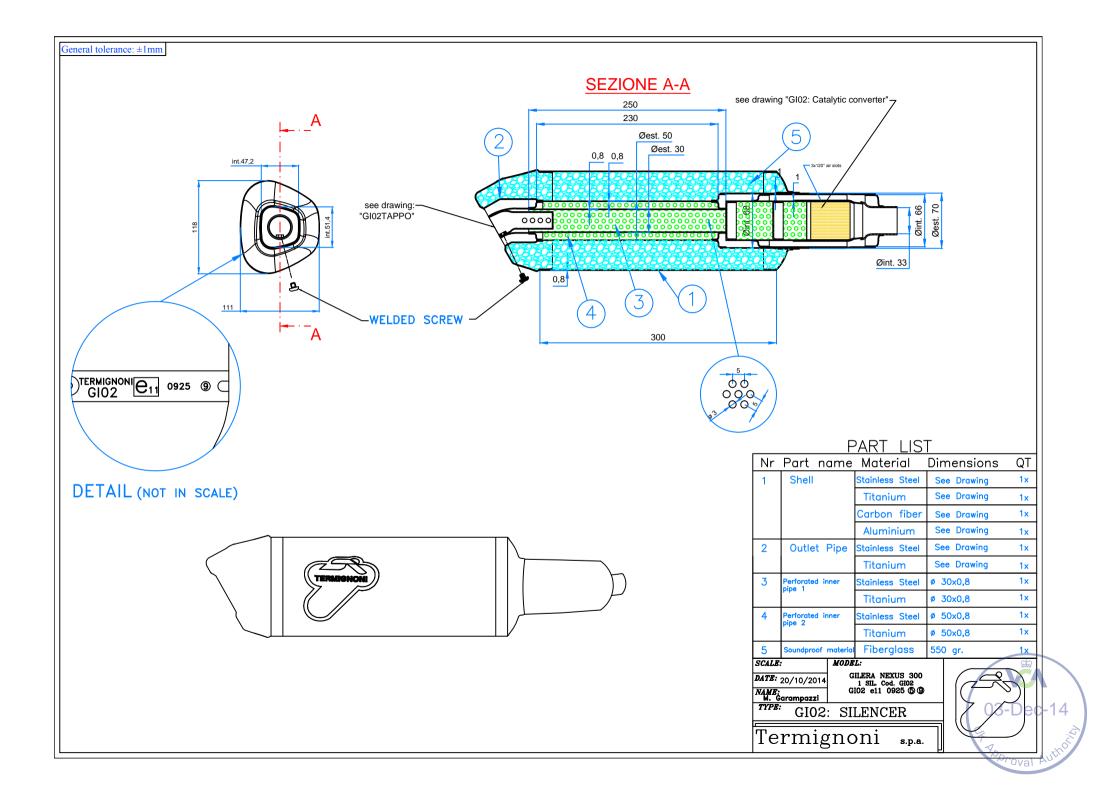


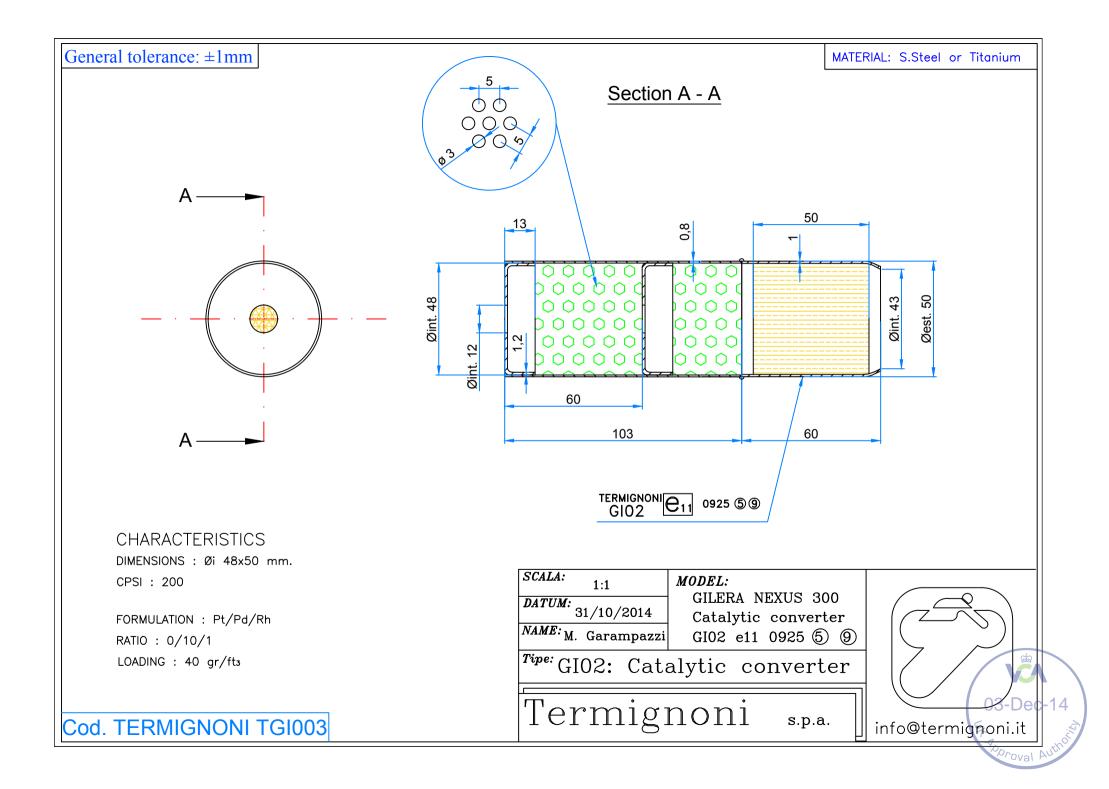
Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2009/108/EC)

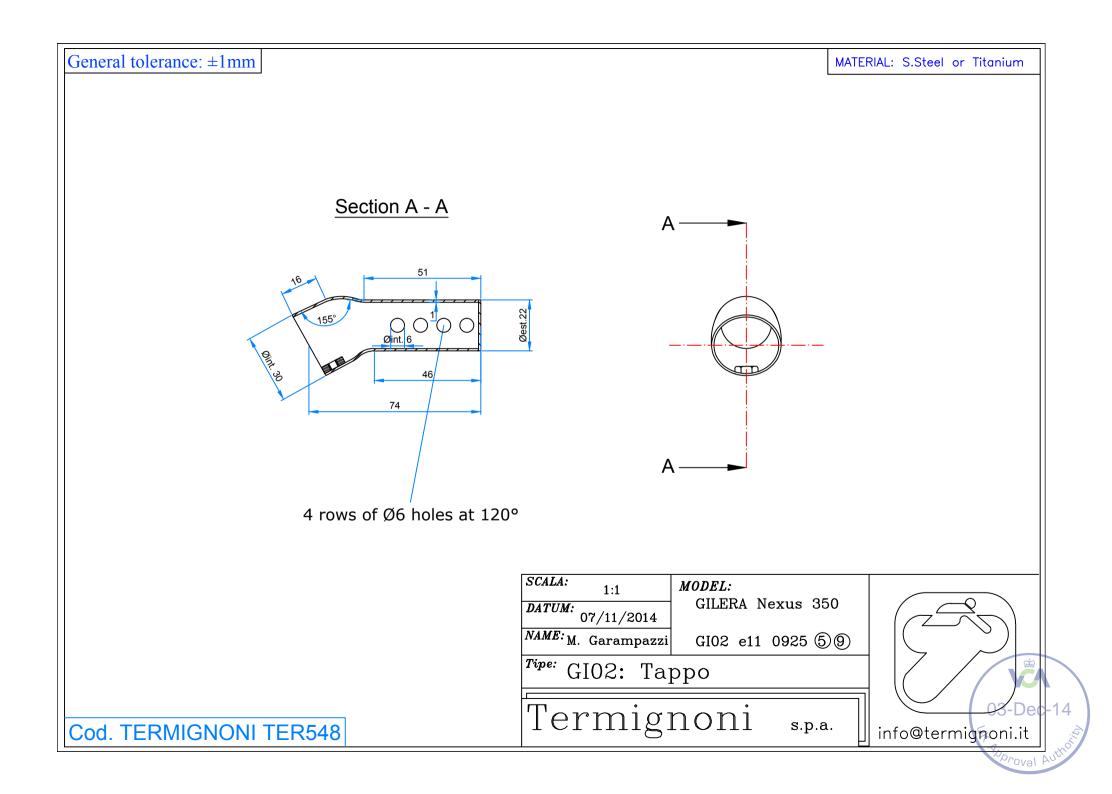
| Enclosures | Drawing no. | Date |
|--------------------------------|---------------------------|------------|
| Drawing of silencer | GI02: SILENCER | 20/10/2014 |
| Drawing of catalytic converter | GI02: CATALYTIC CONVERTER | 31/10/2014 |
| Drawing of reduction | GI02: TAPPO | 07/11/2014 |
| Drawing of composition | GI02: ASSEMBLY | 30/10/2014 |
| List of vehicles | | |

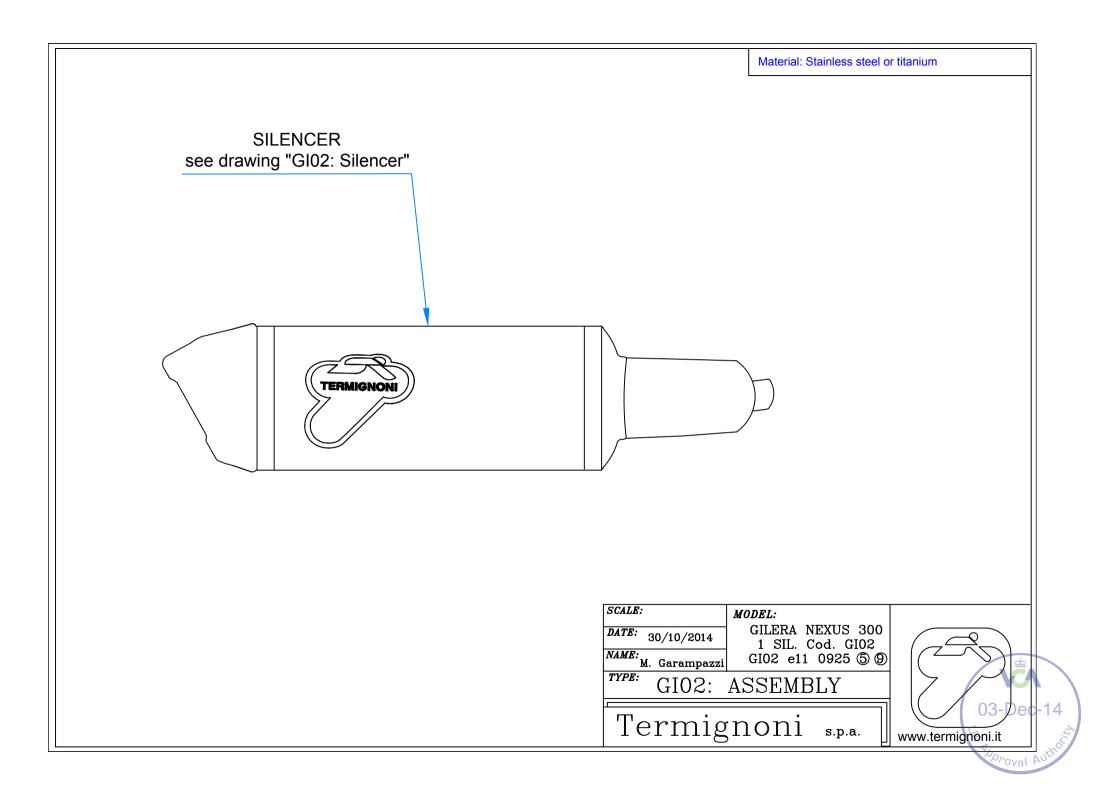
Fitting instructions











INFORMATION DOCUMENT N° GI02/97/24 rev. 00 - List of the vehicles

| No. of ve- hicle | Manufacturer | Make | Commercial name | Vehicle type (and no. of homologation) | Engine type | Stroke | Engine capacity in cm ³ | Rated maximum engine power in kW/min ⁻¹ | Additional remarks: | Composition as shown in enclosure no. 1 |
|------------------------|--------------|---------|---------------------------|--|----------------|------------|--|---|---------------------|---|
| 1) | | GILERA | NEXUS 300 | M35 | M356M | | 278 | 16,1 / 7250 | | |
| 2) | | | NEXUS 250 | e3*2002/24*0402* | M353M | | 244 | 16,2 / 8250 | | |
| 3) | | | RAMBLA 250 | RA | M288M | | 244 | 16,5 / 8000 | | |
| 4) | PIAGGIO & C. | DERBY | RAMBLA 300i | e9*2002/24*0267* | M28LM | _ 4-stroke | 278 | 16,5 / 7250 | with cat | 1) 2) 3) 4) |
| 5) | S.p.A. | | CARNABY CRUISER 300 | M60 e3*2002/24*0459* | M604M | | 278 | 16,1 / 7250 | | |
| 6) | | | MP3 250 | M63 | M632M | | 244 | 16,5 / 8250 | | |
| 7) | | PIAGGIO | MP3 300 | e11*2002/24*0761* | M633M M634M | | 278 | 16,5 / 7500 | | |
| 8) | - | | MP3 250 LT | M64 | M632M | | 244 | 16,5 / 8250 | - | |
| 9) | | | MP3 300 LT | e11*2002/24*0794* | M633M M634M | | 278 | 16,5 / 7500 | | |
| 10) | | APRILIA | SR MAX300 | M35 e3*2002/24*0402* | M356M | | 278 | 16,1 / 7250 | | |





Termignoni s.p.a. Via della Rampina, 1 15077 PREDOSA (AL) Italy Telef. +39 0131.71666 Fax +39 0131.71696 www.termignoni.it Part. IVA - C.F. 00862780061 Iscriz. C.I.A.A. AL 130295 Iscriz. Tribunale Reg. Soc. 7721 N. Export AL 009063 C.C. IT 00862780061 Cap. Soc. € 1.000.000,00 int. vers.

FITTING INSTRUCTIONS

For Termignoni exhaust systems

A. Dismantling the original exhaust system

- 1. Remove any casing impeding clear access
- 2. Detach the silencer support(s) and the original silencer from the branch pipe and/or exhaust manifold

B. Fitting Termignoni silencer(s)

- 1. Fit the Termignoni silencer(s) to the original branch pipe, or use the Termignoni branch pipe to fit the exhaust manifold
- 2. Attach the silencer(s) with the mounting(s) supplied with the vehicle, leaving the screws and bolts loose
- 3. Adjust the exhaust system so that when fully inserted it is at least 5 mm from any other component of the vehicle
- 4. Tighten all screws and bolts
- 5. Test the vehicle and check all connections, tightening the screws and bolts if necessary
- 6. After about 100 km check all the connections again and tighten the screws and bolts if necessary

WARNING:

Take care when working on the exhaust system after testing the vehicle since the surfaces could be very hot



Manufacturer:

Type:

Techn. Report No.:

14-00041-CM-MIL-00 Termignoni S.p.A GI02

Auto Service

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TEST REPORT No. 14-00041-CM-MIL-00

about a test of a non-original exhaust system or a component as a separate technical unit for motorcycles according to the directive of the Council of the European Community for adaptation to the laws of the Member States relating to the permissible sound level, pollution and exhaust systems for two or three-wheel motor vehicles

> No. 97/24/EC including the amendment 2009/108/EG Concerning chapter 9, annex III

| | Approval status | | | | | |
|---|------------------------------|--|--|--|--|--|
| 2 | Granting of a type approval | | | | | |
| | Extension/correction to type | | | | | |



_



| Techn. Report No.: Manufacturer: Type: | | 14-00041-CM-MIL- Termignoni S.p.A GI02 | .00 | Page 2/6 |
|--|-----------------------------------|--|--|----------|
| Reaso | n for extension: | | | |
| It will be | e changed: | Not applicable | | |
| It will b | e updated: | Not applicable | | |
| 0. | General inform | nation | | |
| 0.1. | Make: | | TERMIGNONI | |
| 0.2. | Туре: | | GI02 | |
| 0.2.1. | Variants | | n.a. | |
| 0.3. | Name and add | ress of manufacturer: | Termignoni S.p.A. Via della Rampina, 1 I-15077 Predosa (AL) Italy | |
| 0.4. | Name and add | ress of authorized agent: | n.a. | |
| 0.5. | No. of informati Date: | ion document: | GI02/97/24 rev. 00 10.11.2014 | |
| 1.0. | Class of the ve | hicles the unit is used for: | L3e and L5e | |
| 1.1. | Description of t the unit is used | | notice enclosure 2 | |

2. Composition of the separate technical unit

2.1. Kind of technical unit:

Non-original exhaust system, consisting out of one silencer on the right, maximum shape 118x111 mm, absorption-reflection principle with outlet pipe \emptyset 30 mm according to drawings no. GI02: Silencer and GI02: Tappo, in combination with original header system . Equipped with catalytic converter inside of the inlet section of system according to drawing no. GI02: Catalytic converter. Aluminiumalternatively stainless steel alternatively titanium alternatively carbon fiber-cover.

03-Dec-



| | | | | Auto Ocivice |
|---------------------------------|---|--|---|--------------|
| echn. Rep Ianufactur ype: | | 14-00041-CM-MIL- Termignoni S.p.A GI02 | 00 | Page 3/6 |
| 2.2. | Place of marking: | | On the silencer, see drawing: GI02: Silencer | |
| 2.3. | Assembly of the exhaus (no. of parts, enclosure | - | g Notice 3.4 | |
| 2.4. | Position and direction or | f the tail pipe: | On the rear right side of the vehicle | |
| 3. | Test report | | | |
| The tes | ts were carried out in 2 s | eries A at 26/09/20 | 014 and B at 01/10/2014 | |
| 3.1. | Vehicle | | | |
| (0.1) | Make: | | GILERA | |
| 3.1.1. | Type / Variant / Version | : | M35/6/00 | |
| 3.1.1.1 | Model: | | NEXUS 300 | |
| 3.1.2. | Manufacturer | | PIAGGIO & C. S.p.A. | |
| 3.1.3. 3.1.3.1 | Homologation no.: Extension: | | e3*2002/24*0402* 07 | |
| 3.1.4. | Vehicle identification no | .: | *ZAPM356000006656* | |
| 3.1.5. | Year of manufacture: | | 2011 | |
| 3.1.6. | Kilometers: | | 1840 | |
| 3.1.7. | Total weight: | | 188 kg | |
| 3.2. | Engine | | | |
| 3.2.1. | Manufacturer: | | Notice 3.1.2 | |
| | Trade name: | | GILERA | |
| 3.2.2. | Туре: | | M356M | |
| | | | | |





| Techn. Rep Manufactur Type: | | 14-00041-CM-MIL- Termignoni S.p.A GI02 | 00 Page 4/6 |
|-----------------------------------|---|--|--|
| 3.2.3. | Engine capacity: | | 278 cm ³ |
| 3.2.4. | Rated maximum engine | e power: | 16,1 kW at 7250 min ⁻¹ |
| 3.3. | Transmission | | |
| 3.3.1.K | (ind of transmission: | | Automatic |
| 3.3.4 | Gearbox: | | |
| 3.3.5. p | Transmission ratios: rimary / final | | Notice vehicle homologation no. s. 3.1.3 |
| | Top speed: | | 125 km/h |
| | Tires: front rear | | 120/70 - 15 56P 140/60 - 14 64P |
| 3.4. | Assembly of the exha (no. of parts, enclosure | | 1) 2) 3) 4) |
| 3.5. | Acoustic measuremen | nts | |
| 3.5.1. | Manufacturer of the sou level meter: | und | Brüel & Kjaer |
| 3.5.2. | Type of the sound level | meter: | 2236 |
| 3.5.3. | Drive by noise, stationa | iry noise: | |
| | according to the Counc chapter 9 III. | il Directive No. 97/2 | 24/EC with the amendment 2009/108/EC |
| 3.5.4 | Load condition during d | rive by test: | Unloaded weight plus 80kg driver |
| 3.5.5. | Deviation at calibration: | | < 0.2 dB(A) |
| | | | |





| Techn. Report No.: | 14-00041-CM-MIL-00 | |
|--------------------|--------------------|----------|
| Manufacturer: | Termignoni S.p.A | |
| Туре: | GI02 | Page 5/6 |
| | | |

3.6. Power measurement

3.6.1. Testing of max. power with non-original exhaust system:

The tested max. power und the engine speed are in the 5% tolerance in comparison with the original exhaust system. (see enclosure)

3.6.2. Testing of top speed with non-original exhaust system:

Not applicable, because vehicle class: Motorcycle L3e

3.7. Conditioning

by pulsation

3.8. Pollution Test

Testing of pollution with aftermarket catalytic converter in combination with nonoriginal exhaust system against the limits mentioned in 97/24/Chap. 5 Annex II, regarding the type approval of the test bikes.

3.9. Test results

The results of

- 3.9.1. Noise testing
- 3.9.2. Power measurement
- 3.9.3. Top speed
- 3.9.4. Emission test

are attached in the enclosure.

All motorcycles with the same serial exhaust system and same or fewer performance mentioned in enclosure 2, can be taken into the field of application due to the measurement with the above named motorcycle/s.

- 3.9.5. The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.
- 3.9.6. The general specifications concerning 97/24/EC capt.9 annex III point 3.5.1 were checked and fulfilled regarding the technical possibilities by the non-original exhaust system / technical unit.





Techn. Report No.: Manufacturer: Type: 14-00041-CM-MIL-00 Termignoni S.p.A Gl02

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4. Enclosures

Enclosure 1, Composition of the non original exhaust system Enclosure 2, Field of application Enclosure 3, Test results Enclosure 4, Test results according pollution Information Document

5. Summary

The information folder as mentioned under No. 0.5 and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports". The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

| Designated as | Technical | Service by: |
|---------------|-----------|-------------|
|---------------|-----------|-------------|

| Approval authority | Country | Registration-number | Actual scope list |
|---|--|---------------------------------|--|
| Kraftfahrt-Bundesamt (KBA) | Deutschland/ Germany | KBA-P 00100-10 | www.kba.de |
| Vehicle Certification Agency (VCA) | Vereintes Königreich/ United Kingdom | VCA-TS-006 | http://ec.europa.eu/enterpri se/sectors/automotive/appr |
| Approval Authority of the Netherlands (RDW) | Niederlande/ The Netherlands | RDW-99050009 01 | oval-authorities-technical- services/technical- |
| National Standards Authority of Ireland (NSAI) | Irland/ Ireland | Technical Service Number: 49 | services/index_en.htm |
| Vehicle Safety Certification Center (VSCC) | Taiwan/ Taiwan | DE04-06-1 | http://www.vscc.org.tw/Engli sh/Default.aspx |

München, 10.11.2014







To test report no. Type: Manufacturer: 14-00041-CM-MIL-00 GI02 Termignoni S.p.A.

Composition of the original exhaust system + original parts

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| No. | Components parts, dimensions in mm | Dimensions of the part in mm or | Part no. or |
|-----|--|---|-----------------------------------|
| | | original part / replacement part | homologation no. |
| 1) | Collectors | Original parts | |
| 2) | Catalytic converter | Ø 48 x 50 mm | Drawing GI02: Catalytic converter |
| 3) | Reduction | Notice drawing | Drawing GI02: Tappo |
| 4) | Silencer (outlet pipe \emptyset 30 mm) | One silencer on the right, maximum shape 118x111 mm, absorption-reflection principle with outlet pipe \emptyset 30 mm | Drawing GI02: Silencer |





To test report no. Type: Manufacturer: 14-00041-CM-MIL-00 Gl02 Termignoni S.p.A.

Field of application

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| No. of ve- hicle | Manufacturer | Make | Commercial name | Vehicle type (and no. of homologation) | Engine type | Stroke | Engine capacity in cm ³ | Rated maximum engine power in kW/min ⁻¹ | Additional remarks: | Composition as shown in enclosure no. 1 |
|------------------------|--------------|---------|---------------------------|--|----------------|----------|--|---|---------------------|---|
| 1) | | GILERA | NEXUS 300 | M35 | M356M | | 278 | 16,1 / 7250 | | |
| 2) | | | NEXUS 250 | e3*2002/24*0402* | M353M | | 244 | 16,2 / 8250 | | |
| 3) | | | RAMBLA 250 | RA | M288M | | 244 | 16,5 / 8000 | - | |
| 4) | PIAGGIO & C. | | RAMBLA 300i | e9*2002/24*0267* | M28LM | 4-stroke | 278 | 16,5 / 7250 | with cat | 1) 2) 3) 4) |
| 5) | S.p.A. | | CARNABY CRUISER 300 | M60 e3*2002/24*0459* | M604M | | 278 | 16,1 / 7250 | | () 2) 3) 4) |
| 6) | | | MP3 250 | M63 | M632M | - | 244 | 16,5 / 8250 | | |
| 7) | PIAGGIO | PIAGGIO | MP3 300 | e11*2002/24*0761* | M633M M634M | | 278 | 16,5 / 7500 | | |
| 8) | | | MP3 250 LT | M64 | M632M | | 244 | 16,5 / 8250 | | |
| 9) | | | MP3 300 LT | e11*2002/24*0794* | M633M M634M | | 278 | 16,5 / 7500 | | |
| 10) | | APRILIA | SR MAX300 | M35 e3*2002/24*0402* | M356M | | 278 | 16,1 / 7250 | | 03-Dec-1 |
| I | | | | | | | | | | Toproval Aut |



To test report no. Type: Manufacturer: 14-00041-CM-MIL-00 Gl02 Termignoni S.p.A.

Test results

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| No. | Engine | Engine | Vmax | Vmax | measured | Limit | Original | Non | at | Vehicle | Original | Non | at |
|---------|----------------------|----------------------|----------|----------|----------|-------|----------|----------|------|---------|----------|----------|-------|
| of | power | power | original | non | in gear | Value | mea- | original | km/h | type | mea- | original | min⁻¹ |
| vehicle | original | non original | | original | ratio | **) | sured | measured | | hom. | sured | measured | |
| | kW/min ⁻¹ | kW/min ⁻¹ | km/h | km /h | | | | | | | | | |
| 1) A* | 16,1/7250 | 15,7 / 7250 | - | - | - | 80 | 80 | 80 | 50 | 81 | 83 | 84 | 3625 |

*) Test series

**) Limit value of directive which was valid by vehicle type homologation





To *test report no.* Type: Manufacturer: 14-00041-CM-MIL-00 Gl02 Termignoni S.p.A.

Test results according pollution

Test series: B

Type I

| Equivalent flywheel mass | 350 kg |
|--------------------------|--------|
|--------------------------|--------|

| | CO [g/km] | HC [g/km] | NO _X [g/km] | |
|------------------------------------|--------------|--------------|---------------------------|--|
| Test 1 | 0,326 | 0,088 | 0,089 | |
| Test 2 | - | - | - | |
| Test 3 | - | - | - | |
| Average | 0,326 | 0,088 | 0,089 | |
| <i>Limits</i> B, II (Vh≥150cm³) | 2,00 | 0,30 | 0,15 | |

Type II

| Running condition | CO [Vol %] | Engine rpm [min ⁻¹] | Engine oil temperature [K] | | |
|---------------------|---------------|------------------------------------|-------------------------------|--|--|
| Nominal idle speed | 0,10 | 1600 | 374 | | |
| Exceeded idle speed | 0,08 | 2300 | 374 | | |



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