



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY
EU TYPE-APPROVAL CERTIFICATE

Communication concerning:

EU type-approval

~~extension of EU type-approval~~

~~refusal of EU type-approval~~

~~withdrawal of EU type-approval~~

of a type of separate technical unit: exhaust device
(pollution-control device and noise-abatement device)

with regard to Annex(es) IX to (Commission Delegated) Regulation (EU) No 134/2014

EU type-approval No: e11*134/2014*134/2014H*0504*00

Reason(s) for extension: N/A



SECTION I

0.7. Make(s) (trade name(s) of manufacturer): TERMIGNONI

0.8. Type: Y109

0.8.1 Commercial name(s) (if available): N/A

0.9. Company name and address of the manufacturer:

Termiginoni S.p.A
via della Rampina 1
15077 Predosa (AL)
Italy

0.9.1. Name(s) and address(es) of assembly plant(s):

Termiginoni S.p.A
via della Rampina 1
15077 Predosa (AL)
Italy

0.9.2. Name and address of manufacturer's authorised representative, if any: N/A

0.10. In the case of separate technical unit, vehicle(s) for which the system is intended for: see list enclosed

EAS367447

- 0.10.1. Type: see list enclosed
- 0.10.2. Variant(s): see list enclosed
- 0.10.3. Version(s): see list enclosed
- 0.10.4. Commercial name(s) (if available): see list enclosed
- 0.10.5. Category, subcategory and sub-subcategory of vehicle: see list enclosed

SECTION II

- 1. Technical service responsible for carrying out the tests: TÜV SÜD Auto Service GmbH
- 2. Date of test report: 11 July 2016
- 3. Number of test report: 16-00004-CM-MIL-00
- 4. Remarks (see addendum): N/A

5. Restrictions of validity: N/A

6. Waivers applied: N/A

Place: BRISTOL

Signature:



D LAWLOR
Head of Technical Standards & Legislation

Date: 06 AUGUST 2016

Attachments:

Information package

Test results

ADDENDUM

to the EU type-approval certificate with EU type-approval number

- 1. Restriction of use of the : N/A
- 2. Special conditions for the mounting of the : see attached list
- 3. Remarks : N/A



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11*134/2014*134/2014H*0504*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: 00 (Zero)

Total number of sheets: Eight (8)

Reasons for Revision:

Not applicable

Revision date
&
Office stamp

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





Information Document relating to EU type approval as separate technical unit of exhaust systems for motorcycles (Regulation (EU) 134/2014 including the amendment (EU) 134/2014 dated 16.12.2013)

1. *Make (trade name of manufacturer):* Termignoni
2. *Type and general commercial description:* Y109
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 application:* *See list enclosed*
7. *Restriction and instructions for installing:* *Notice assembly manual and field of application*

Further details are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).





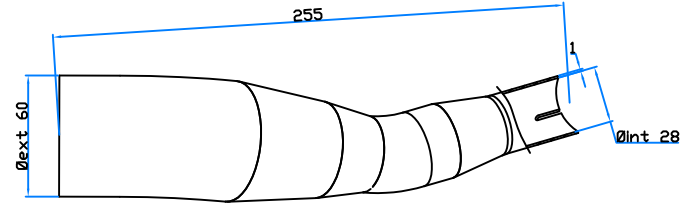
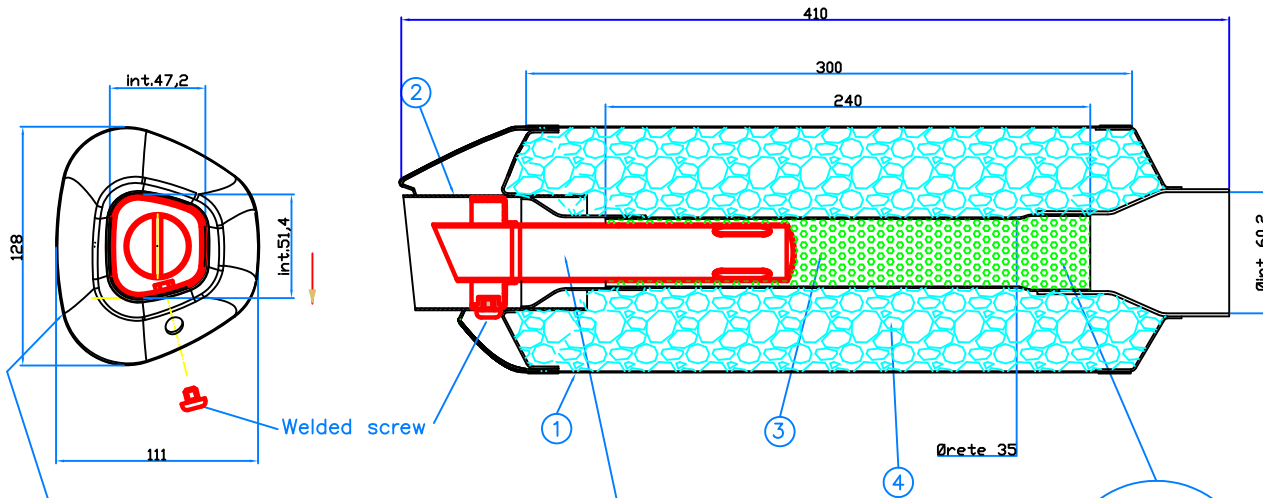
Information Document relating to EU type approval as separate technical unit of exhaust systems for motorcycles (Regulation (EU) 134/2014 including the amendment (EU) 134/2014 dated 16.12.2013)

<i>Enclosures</i>	<i>Drawing no.</i>	<i>Date</i>
<i>Drawing of silencer</i>	Y109: SILENCER	28/04/2016
<i>Drawing of catalytic converter</i>	Y109: CATALYTIC CONVERTER	28/04/2016
<i>Drawing of reduction</i>	Y109: TAPPO	28/04/2016
<i>Drawing of composition</i>	Y109: ASSEMBLY	28/04/2016
<i>List of vehicles</i>		
<i>Fitting instructions</i>		

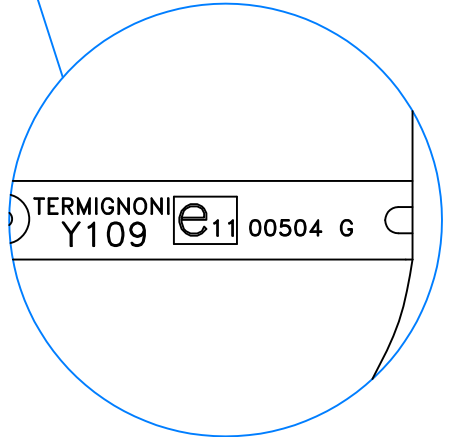
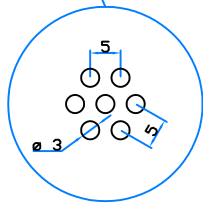
INFORMATION DOCUMENT N° Y109/97/24 rev. 00 - List of the vehicles

No. of vehicle	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)	M.B.K. Industrie	YAMAHA / MBK	YP250R, YP250RA	SG26 e13*2002/24*0680*	G3B3E	4-stroke	249,78	15,0 / 7500	with cat	1) 2) 3) 4)
2)				SG25 e13*2002/24*0494*	G389E G3A7E					
3)	YAMAHA MOTOR ESPANA SA	YAMAHA	YP250R	SG16 e9*2002/24*0039*	G344E G362E			14,8 / 7500 15,0 / 7250		
4)				YP250R, YP250RA	SG22 e9*2002/24*0362*			G389E G3A7E		

General tolerance: ±1mm



see drawing
"Y109: TAPPO"



DETAIL (NOT IN SCALE)

PART LIST

Nr	Part name	Material	Dimensions	QT
1	Shell	Stainless Steel	See Drawing	1x
		Titanium	See Drawing	1x
		Carbon fiber	See Drawing	1x
		Aluminium	See Drawing	1x
2	Outlet Pipe	Stainless Steel	See Drawing	1x
		Titanium	See Drawing	1x
3	Punched-holes pipe	Stainless Steel	See Drawing	1x
		Titanium	See Drawing	1x
4	Sound deadener	Fiberglass	420 gr.	1x

SCALE:

MODEL:

DATE: 28/04/16

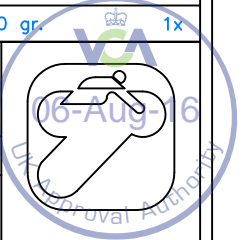
YAMAHA XMAX 250
1 SILENCER Y109
Y109 e11 00504 H

NAME: C. Zappia

TYPE:

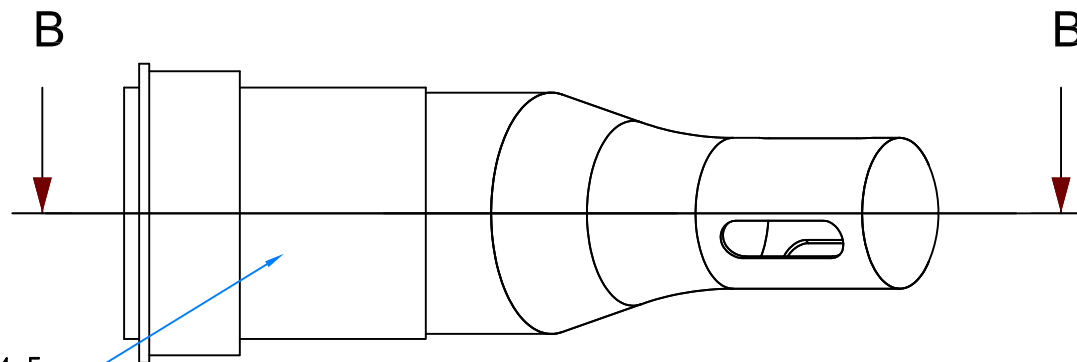
Y109: SILENCER

Termignoni s.p.a.

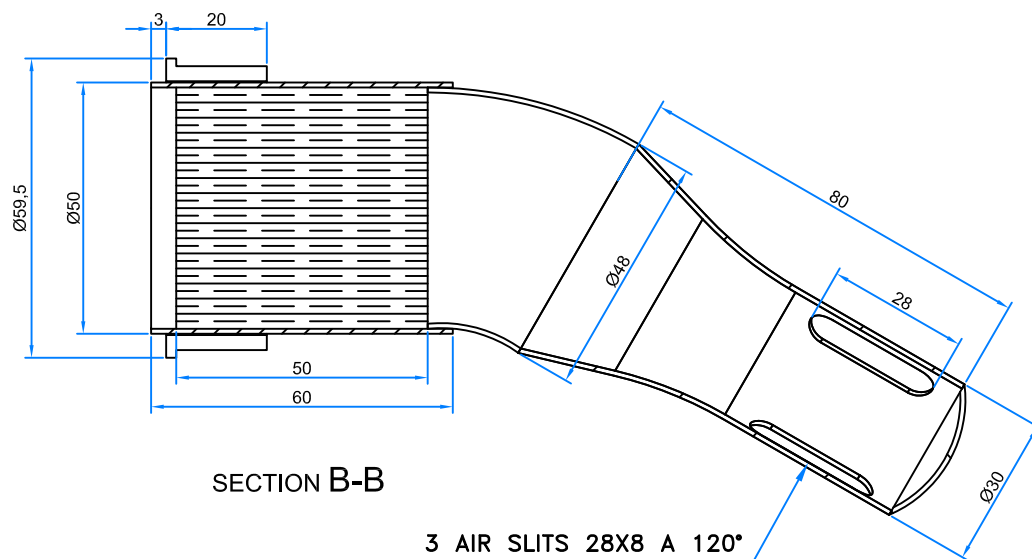


General tolerance: $\pm 1\text{mm}$

MATERIAL: S.Steel or Titanium



TERMIGNONI
Y109 e11 00504 F



CHARACTERISTICS

DIMENSIONS : $\varnothing i$ 48x50 mm.

CPSI : 200

FORMULATION : Pt/Pd/Rh

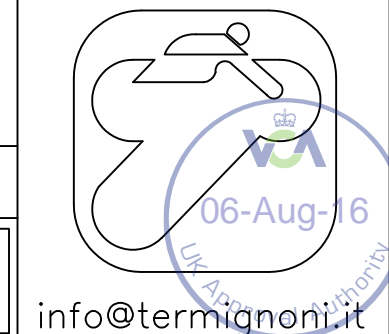
RATIO : 0/10/1

LOADING : 40 gr/fts

SCALA: 1:1	MODEL: YAMAHA XMAX 250 Catalytic converter Y109 e11 00504 H
DATUM: 28/04/2016	
NAME: C. Zappia	
Type: Y109: Catalytic converter	

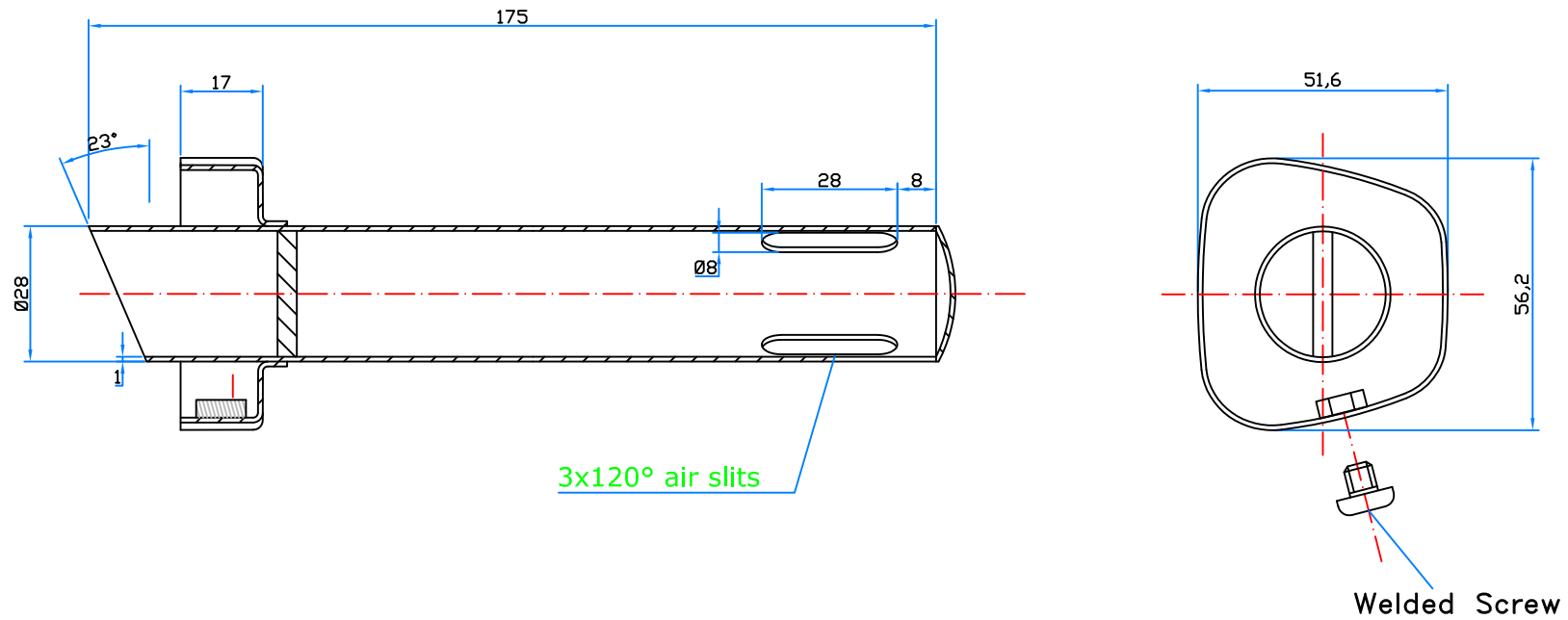
Cod. TERMIGNONI TY200

Termignoni s.p.a.

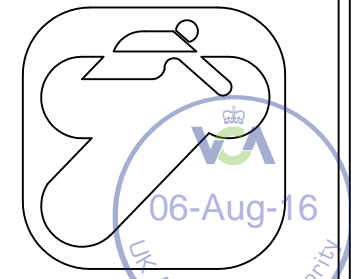


General tolerance: $\pm 1\text{mm}$

MATERIAL: S.Steel or Titanium



SCALA:	MODEL:
DATUM: 28/04/2016	YAMAHA XMAX 250
NAME: C. Zappia	1 SILENCER Y109
Type: Y109: Tappo	Y109 e11 00504 H



Cod. TERMIGNONI TER591

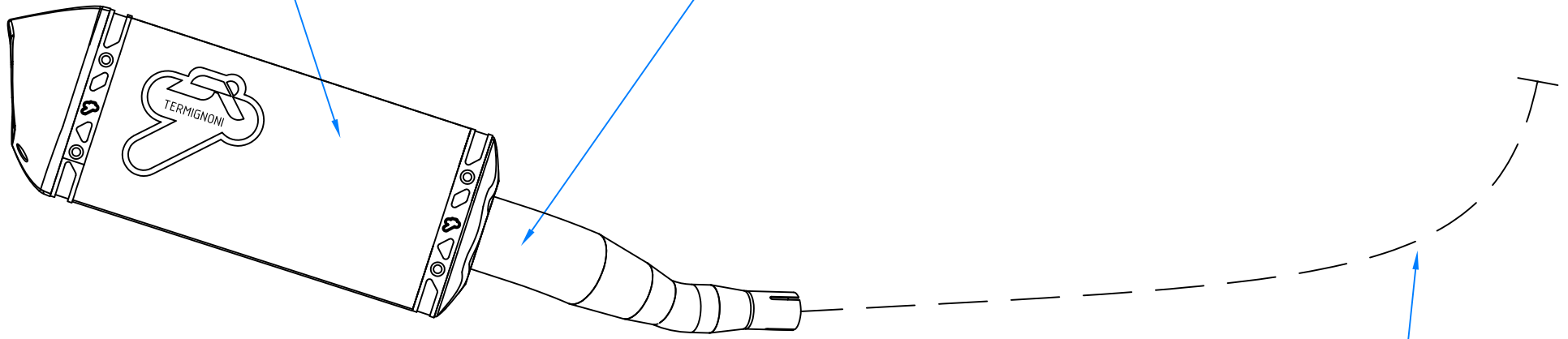
Termignoni s.p.a.

info@termignoni.it

Material: Stainless steel or titanium

SILENCER
see drawing "Y109: Silencer"

CATALYTIC CONVERTER
see drawing "Y109: Catalytic converter"



ORIGINAL COLLECTOR

SCALE:	MODEL:
DATE: 28/04/2016	YAMAHA XMAX 250
NAME: C. Zappia	Assembly
TYPE:	Y109 e11 00504 H
Y109: Assembly	

Termignoni s.p.a.





Termignoni s.p.a.
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15077 PREDOSA (AL) Italy
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www.termignoni.it
Part. IVA - C.F. 00862780061
Iscriz. C.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



Techn. Report No.: 16-00004-CM-MIL-00
Manufacturer: Termignoni S.p.A
I-15077 Predosa (AL)
Type: Y109

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TEST REPORT

No. 16-00004-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

Regulation (EU) 134/2014 including the amendment (EU) 134/2014 dated 16.12.2013

Codification: H

Approval status	
<input checked="" type="checkbox"/>	Granting of a type approval e11*134/2014*134/2014H*00504*00
<input type="checkbox"/>	Extension/correction to type approval no. --

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Manufacturer: Termignoni S.p.A
I-15077 Predosa (AL)
Type: Y109

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Reason for extension:

It will be changed: Not applicable

It will be updated: Not applicable

0. General information

- 0.1. Make: TERMIGNONI
- 0.2. Type: Y109
- 0.2.1. Variants n.a.
- 0.3. Name and address of manufacturer: Termignoni S.p.A.
Via della Rampina, 1
I-15077 Predosa (AL)
Italy
- 0.4. Name and address of authorized agent: n.a.
- 0.5. No. of information document: Y109/134/2014 rev. 00
Date: 11.05.2016
- 1.0. Class of the vehicles the unit is used for: L3e
- 1.1. Description of the vehicles
the unit is used for: 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, \varnothing 128x111 mm and, total length 410 mm, absorption-reflection principle with outlet pipe \varnothing 26 mm with covering pipe 51,4x47,2 mm according to drawing no. Y109: Silencer, Y109: Tappo. Equipped with catalytic converter inside of the inlet section of system according to drawings no. Y109:Final body and Y102: Catalytic converter. Aluminium-alternatively stainless steel alternatively titanium alternatively carbon fiber-cover. The variants vary because different materials are used. The basic construction remains the same. The acoustic behaviour is similar.

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Manufacturer: Termignoni S.p.A
I-15077 Predosa (AL)
Type: Y109

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- 2.2. Place of marking: On the silencer, see drawing:
Y109: Silencer
- 2.3. Assembly of the exhaust system for testing
(no. of parts, enclosure 1): Notice 3.4
- 2.4. Position and direction of the tail pipe: On the right side of the vehicle
- 2.5. Test samples submitted for testing at: 28.04.2016

3. Test report

The tests were carried out in 2 series A at 28/04/2016 and B at 04/05/2016

3.1. **Vehicle**

- (0.1) Make: YAMAHA / MBK
- 3.1.1. Type / Variant / Version: SG26
- 3.1.1.1 Model: YP250R
- 3.1.2. Manufacturer: MBK Industrie
- 3.1.3. Homologation no.: e13*2002/24*0680
- 3.1.4. Vehicle identification no.: *VG5SG261000006788*
- 3.1.5. Year of manufacture: 2016
- 3.1.6. Kilometers: 1376
- 3.1.7. Total weight: 256 kg

3.2. **Engine**

- 3.2.1. Manufacturer: Motori Minarelli S.p.A.
Trade name: MINARELLI
- 3.2.2. Type: G3B3E
- 3.2.3. Engine capacity: 249,78 cm³

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I-15077 Predosa (AL)
Type: Y109

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3.2.4. Rated maximum engine power: 15,0 kW at 7500 min⁻¹

3.3. Transmission

3.3.1. Kind of transmission: CVT

3.3.4 Gearbox: --

3.3.5. Transmission ratios:
primary / final See point 3.1.3

Top speed: See point 3.1.3

Tires:
front 120/70-15 M/C 56P
rear 140/70-14 M/C 68P

3.4. **Assembly of the exhaust system**
(no. of parts, enclosure 1): 1) 2) 3) 4)

3.5. Acoustic measurements

3.5.1. Manufacturer of the sound
level meter: Brüel & Kjaer

3.5.2. Type of the sound level meter: 2236

3.5.3. Drive by noise, stationary noise:
according to ECE-R 41.04

3.5.4 Load condition during drive by test: Unloaded weight plus 80kg driver

3.5.5. Deviation at calibration: < 0.2 dB(A)

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)

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I-15077 Predosa (AL)
Type: Y109

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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 non-original 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 regarding (EU)134/2014; Annex IX; Appendix 2; Clause 3.5.1. are fulfilled by the non-original exhaust system as technical unit.

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

Techn. Report No.: 16-00004-CM-MIL-00
 Manufacturer: Termignoni S.p.A
 I-15077 Predosa (AL)
 Type: Y109

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/appro val-authorities-technical- services/technical- services/index_en.htm
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDWT-082-01	
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	http://www.vsc.org.tw/Engli sh/Default.aspx

München, 11.05.2016



Pietro Vergani
 Authorized Signatory



ENCLOSURE 1

To test report no.
Type:
Manufacturer:

16-00004-CM-MIL-00
Y109
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 original part / replacement part	Part no. or homologation no.
1)	Collectors and final body	Original part	--
2)	Catalytic converter	∅ 48x50	Drawing Y109: CATALYTIC CONVERTER
3)	Reduction	Notice drawing	Drawing Y109: TAPPO
4)	Silencer (outlet pipe ∅ 35 mm)	One silencer on the right, ∅ 128x111 mm and, total length 410 mm, absorption-reflection principle with outlet pipe ∅ 26 mm with covering pipe 51,4x47,2 mm	Drawing Y109: SILENCER



ENCLOSURE 2

To test report no.
Type:
Manufacturer:

16-00004-CM-MIL-00
Y109
Termignoni S.p.A.

Field of application

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No. of vehicle	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)	M.B.K. Industrie	YAMAHA / MBK	YP250R, YP250RA	SG26 e13*2002/24*0680*	G3B3E	4-stroke	249,78	15,0 / 7500	with cat	1) 2) 3) 4)
2)				SG25 e13*2002/24*0494*	G389E G3A7E					
3)	YAMAHA MOTOR ESPANA SA	YAMAHA	YP250R	SG16 e9*2002/24*0039*	G344E G362E			14,8 / 7500 15,0 / 7250		
4)				YP250R, YP250RA	SG22 e9*2002/24*0362*			G389E G3A7E		

ENCLOSURE 3

To test report no.
Type:
Manufacturer:

16-00004-CM-MIL-00
Y109
Termignoni S.p.A.

Test results

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No. of vehicle	Engine power original kW/min ⁻¹	Engine power non original kW/min ⁻¹	Vmax original km/h	Vmax non original km /h	measured in gear ratio	Limit Value **)	Original measured	Non original measured	at km/h	Vehicle type hom.	Original measured	Non original measured	at min ⁻¹
1) A*	15,0/7500	14,7/7500	-	-	-	80	80	80	50	83	84	83	3750

*) *Test series*

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

ENCLOSURE 4

To test report no.
Type
Manufacturer:

16-00004-CM-MIL-00
Y109
Termignoni S.p.A.

Test results according pollution

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Test series: B

Equivalent flywheel mass	250 kg
--------------------------	--------

	CO [g/km]	HC [g/km]	NO _x [g/km]
Test 1	0,837	0,129	0,031
Test 2	--	--	--
Test 3	--	--	--
<i>Average</i>	0,837	0,129	0,031
<i>Limits B, II</i> (V _h ≥150cm ³)	2,00	0,30	0,15

Type II

Running condition	CO [Vol %]	Engine rpm [min ⁻¹]	Engine oil temperature [K]
Nominal idle speed	0,07	1550	372
Exceeded idle speed	0,09	2300	372