

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 A TYPE OF MOTORCYCLE 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*0868*00

Report No: 14-00004-CM-MIL-00, by technical service: TÜV SÜD Auto Service GmbH, date: 25 March

2014

Reason(s) for extension: Not applicable

1. Make of exhaust: Termignoni

2. Type of exhaust: D145

- 3. Name and address of manufacturer:
 Termignoni S.p.A.
 Via della Rampina, 1
 I-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 manufacturer's documentation
- 6. Date system submitted for testing: 17 February and 19 March 2014
- 7. Component type-approval GRANTED⁽¹⁾



8. Place: BRISTOL

9. Date: 15 APRIL 2014

10. Signature: 1

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







THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11*97/24/9/III/2009/108*0868*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: Not applicable

Total number of sheets: 12 (Twelve)

Reasons for Revision: Not applicable

Revision date &
Office stamp





INFORMATION DOCUMENT N° D145/97/24 rev. 00

Date: 25/03/2014 Page 1/2

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: D145

2.1 Variant: 01, 02, 03

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 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 N° D145/97/24 rev. 00

Date: 25/03/2014 Page 2/2

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 collectors	D145: FINAL BODY	11/02/2014
Drawing of silencer	D145: LOWER SILENCER D145: UPPER SILENCER	11/02/2014 11/02/2014
Drawing of catalytic converter	D145: CATALYTIC CONVERTER	10/02/2014
Drawing of reduction	D145: Tappo tipo "A" D145: Tappo tipo "B" D145: Tappo tipo "C""	11/02/2014 18/02/2014 18/02/2014
Drawing of composition	D145: ASSEMBLY	10/02/2014

List of vehicles

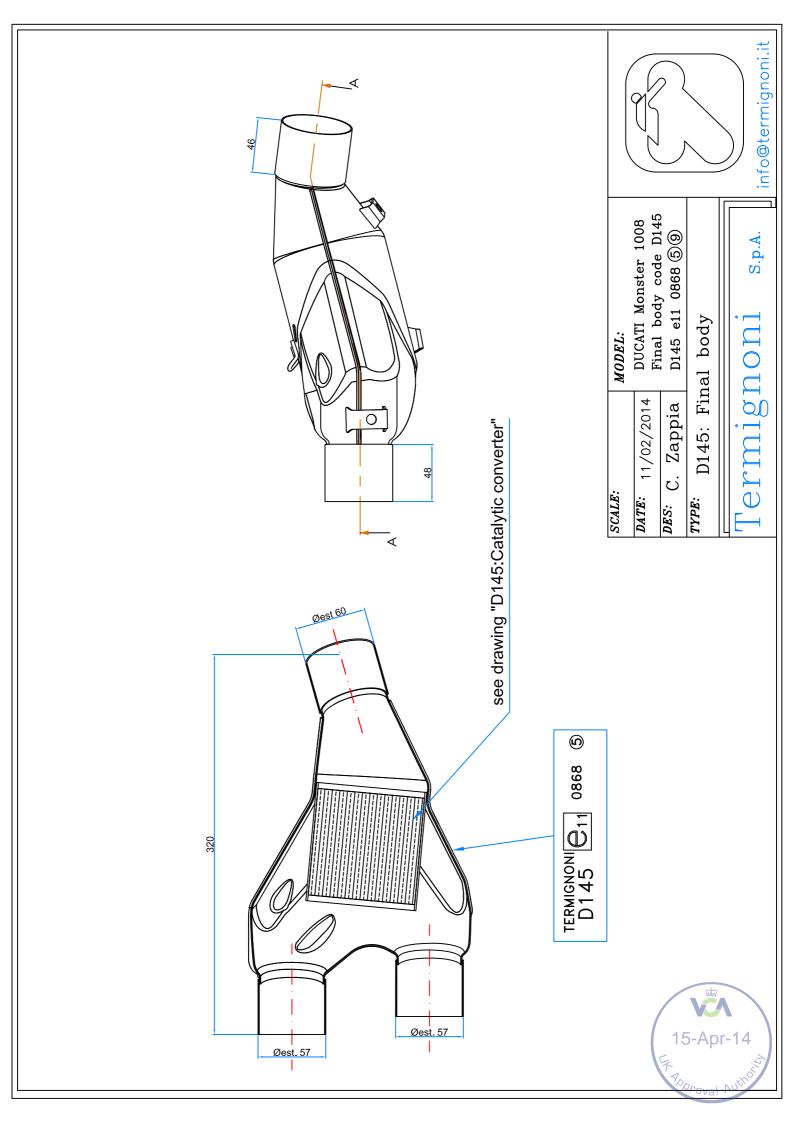
Fitting instructions

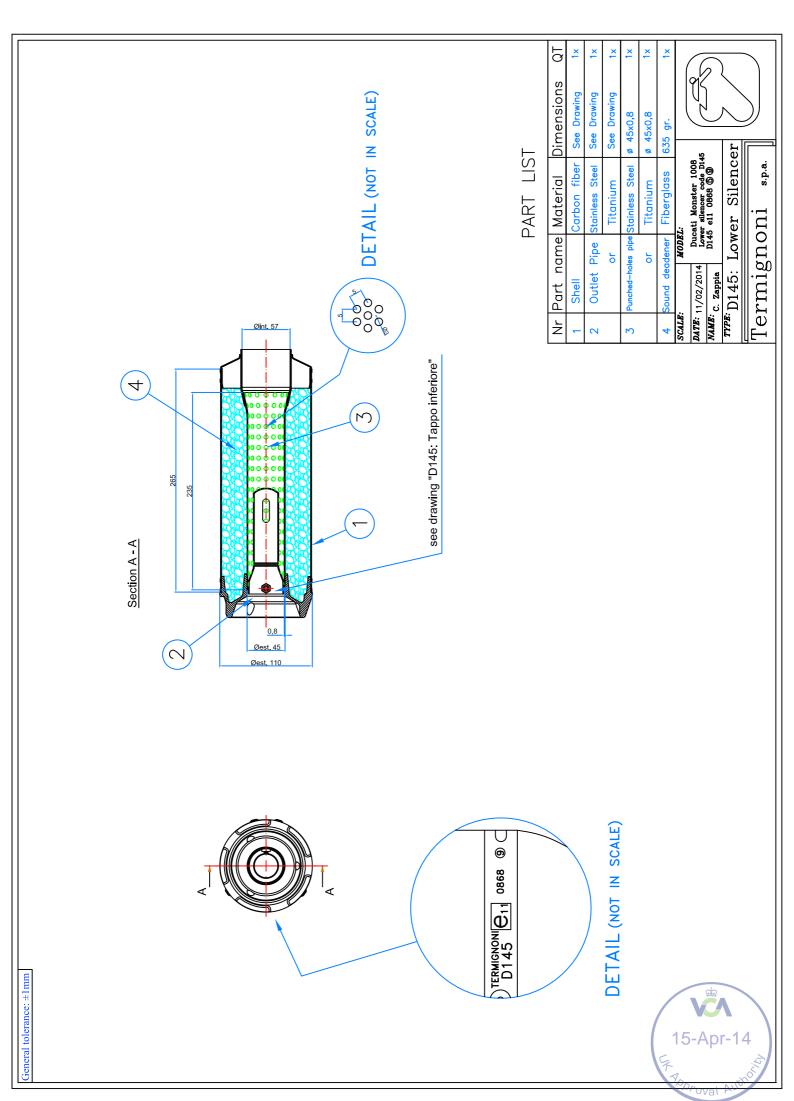


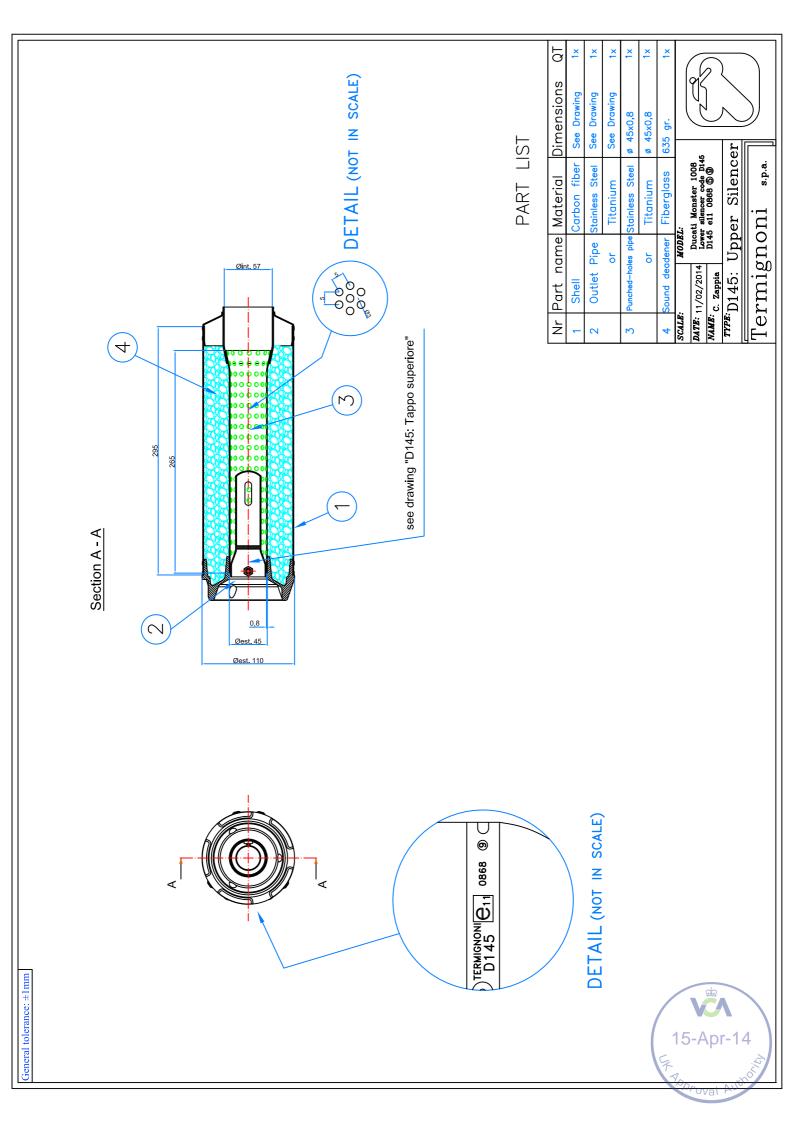
INFORMATION DOCUMENT N° D145/97/24 rev. 00 - List of the vehicles

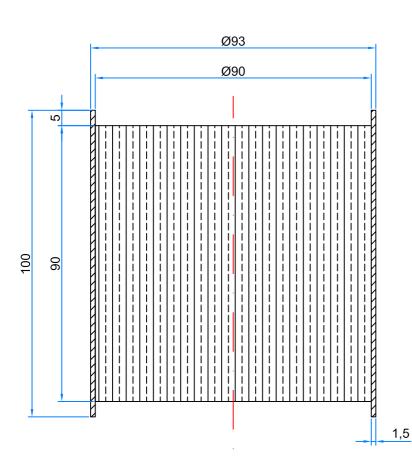
No. of ve- hicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm ³	Rated maximum engine power in kW/min ⁻¹	Additional remarks:	Composition as shown in enclosure no. 1
			I	1	1	1	1	1	Ī	
1)								101 / 8750		
2)	DUCATI	DUGATI		M6	44000441		4400	94 / 9000		1) 2) 3.1) 4) or
3)	Motor Holding S.p.A	DUCATI	Monster	e9*2002/24*6025*00	1198WH	4-stroke	1198	74 / 8750	with cat	1) 2) 3.2) 4) or 1) 2) 3.3) 4)
4)								88 / 7250		











CHARACTERISTICS

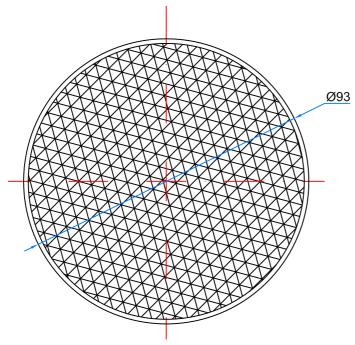
DIMENSIONS: Øi 90x90 mm.

CPSI: 200

FORMULATION : Pt/Pd/Rh

RATIO : 5/32/1

LOADING: 60 gr/ft 3



SCALE:

MODEL:

DATE: 10/02/2014
Catalytic converter code D145

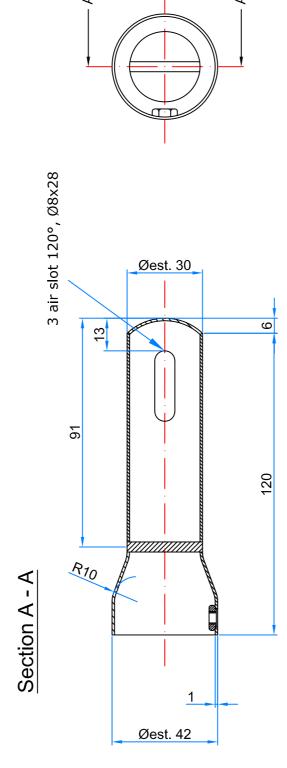
DES: C. Zappia D145 e11 0868 5 9

D145: Catalytic converter



s.p.a.





 SCALA:
 MODEL:

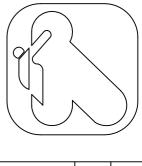
 DATUM: 11/02/2014
 Ducati Monster 1008

 NAME: E. VRAPI
 Tappo code: D145

 Tipe:
 D145 e11 0868 ⑤ ⑥

 Tipe:
 D145: Tappo tipo "A"

Termignoni s.p.a.

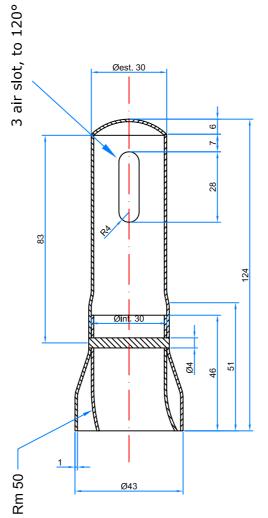


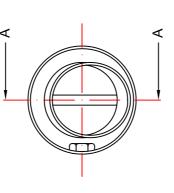
info@termignoni.it

Sode TERMIGNONI: TER486

General tolerance: ±1mm

Section A - A





 SCALA:
 1:1
 MODEL:

 DATUM:
 18/02/2014
 Ducati Monster 1008

 NAME:
 E. VRAPI
 D145 e11 0868 (5)(9)

D145: Tappo tipo "B"

Tipe:

Termignoni



info@termignoni.it

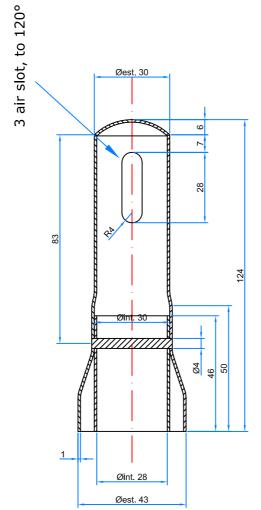
s.p.a.

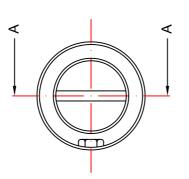
Sode TERMIGNONI: TER514

15-Apr-1

General tolerance: ±1mm

Section A - A





 SCALA:
 1:1
 MODEL:

 DATUM:
 18/02/2014
 Ducati Monster 1008

 NAME:
 E. VRAPI
 D145 e11 0868 ⑤ ⑥

D145: Tappo tipo "C"

Tipe:

Termignoni

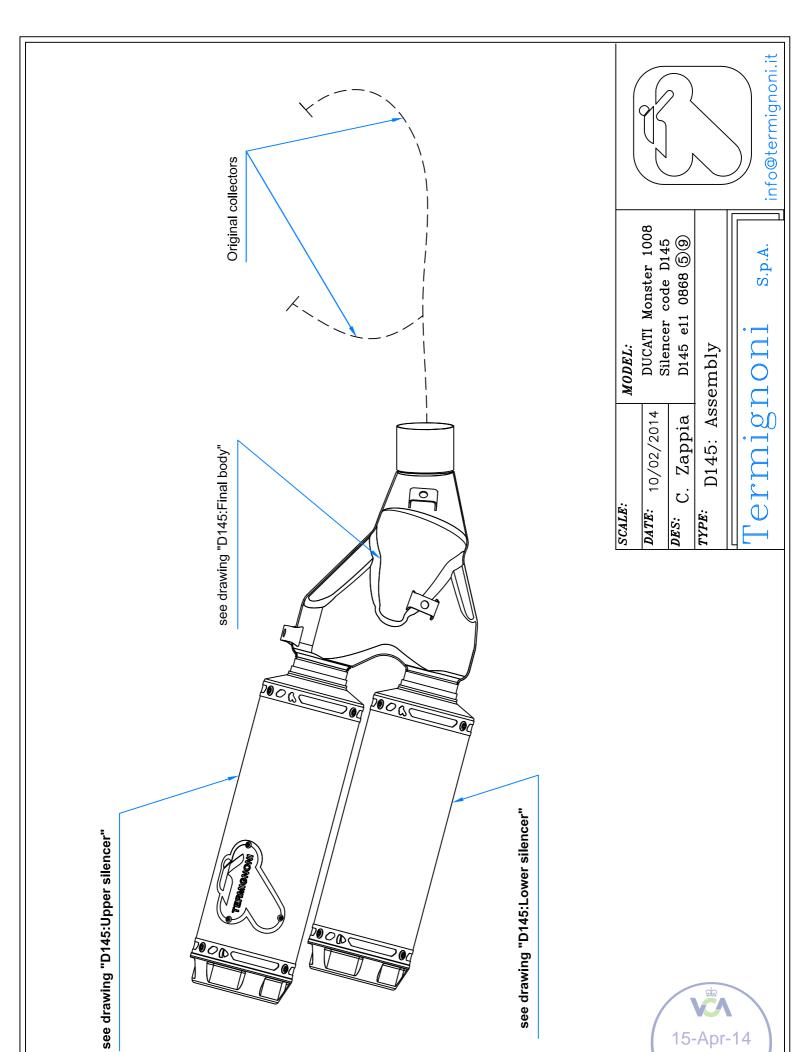


info@termignoni.it

s.p.a.

Sode TERMIGNONI: TER513

15-Apr-1







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 Fart. IVA - C.F. 00862/80061 Iscriz. C.C.I.A.A. AL 130295 Iscriz. Tribunale Reg. Soc. 7721 N. Export AL 009063 C.C. IT 00862780061

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



TÜV SÜD Auto Service GmbH Westendstraße 199 D-80686 München



Techn. Report No.: 14-00004-CM-MIL-00
Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: D145 Page 1/6

TEST REPORTNo. 14-00004-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

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

	Approval status
>	Granting of a type approval
	Extension/correction to type approval no.





Techn. Report No.: 14-00004-CM-MIL-00 Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: D145 Page 2/6

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: D145

0.2.1. Variants 01 (with Tappo Tipo "A").

02 (with Tappo Tipo "B"). 03 (with Tappo Tipo "C").

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: D145/97/24 rev. 00

Date: 25.03.2014

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 two silencer on the right, \varnothing 110 mm and, total length 265 mm and 295 mm, absorption-reflection principle with outlet pipe \varnothing 43 or 42 mm with covering pipe \varnothing 45 mm according to drawing no. D145: Upper Silencer and D145: Lower Silencer,

D145: Tappo A, D145: Tappo B and D145: Tappo C . Equipped with catalytic converter inside of the inlet section of

system according to drawings no.



Techn. Report No.: 14-00004-CM-MIL-00 Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: D145 Page 3/6

D145:Final body and D145: Catalytic

converter.

2.2. Place of marking: On the silencer, see drawing:

D145: Lower silencer D145: Upper 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 rear right side of the vehicle

3. Test report

The tests were carried out in 2 series A at 17/02/2014 and B at 19/03/2014

3.1. Vehicle

(0.1) Make: DUCATI

3.1.1. Type / Variant / Version: M6

3.1.1.1 Model: Monster

3.1.2. Manufacturer DUCATI Motor Holding S.p.A..

3.1.3. Homologation no.: e9*2002/24*6025*00

3.1.3.1 Extension: 00

3.1.4. Vehicle identification no.: *ZDMM600AADB000016*

3.1.5. Year of manufacture: 2014

3.1.6. Kilometers: 1753

3.1.7. Total weight: 211 kg

3.2. Engine

3.2.1. Manufacturer: Notice 3.1.2

Trade name: DUCATI

3.2.2. Type: 1198WH





Techn. Report No.: 14-00004-CM-MIL-00
Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: D145 Page 4/6

3.2.3. Engine capacity: 1198 cm³

3.2.4. Rated maximum engine power: 101 kW at 8750 min⁻¹

3.3. Transmission

3.3.1. Kind of transmission: Mechanical

3.3.4 Gearbox: 6 Speed

3.3.5. Transmission ratios:

primary / final 1:1,848 / 1:2,733

Top speed: 255 km/h

Tires:

front 120/70ZR17 M/C (58W) rear 190/55ZR17 M/C (75W)

3.4. Assembly of the exhaust system

(no. of parts, enclosure 1): 1) 2) 3.1) 4) or

1) 2) 3.2) 4) or 1) 2) 3.3) 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 the Council Directive No. 97/24/EC with the amendment 2009/108/EC

chapter 9 III.

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

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





Techn. Report No.: 14-00004-CM-MIL-00 Manufacturer: Termignoni S.p.A

Termignoni S.p.A 15077 Predosa (AL)

Type: D145 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.: 14-00004-CM-MIL-00 Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: D145 Page 6/6

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	Irland/	Technical Service	services/index_en.htm
Ireland (NSAI)	Ireland	Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-1	http://www.vscc.org.tw/English/Default.aspx

München, 25.03.2014

Authorized Signatory





To test report no.

Type: Manufacturer:

14-00004-CM-MIL-00 D145 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	Notice drawing	Drawing D145: Final body
2)	Catalytic converter	Ø 43 x 110 mm	Drawing D145: CATALYTIC CONVERTER
3.1)	Reduction	Notice drawing	Drawing D145: Tappo tipo "A"
3.2)	Reduction	Notice drawing	Drawing D145: Tappo tipo "B"
3.3)	Reduction	Notice drawing	Drawing D145: Tappo tipo "C"
4)	Silencer (outlet pipe Ø 43 or 42 mm)	Two silencer on the right, \varnothing 110 mm and, total length 265 mm and 295 mm, absorption- reflection- principle with an outlet pipe \varnothing 43 or 42 mm with covering pipe \varnothing 45 mm	Drawing D145: LOWER SILENCER and Drawing D145: UPPER SILENCER





To test report no.

Type: Manufacturer:

14-00004-CM-MIL-00 D145 Termignoni S.p.A.

Field of application Page 1/1

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
			Γ	T	T	T	T		T	
1)								101 / 8750		
2)	DUCATI	DUGATI		M6	4400\4/1		4400	94 / 9000	201	1) 2) 3.1) 4) or
3)	Motor Holding S.p.A	DUCATI	Monster	e9*2002/24*6025*00	1198WH	4-stroke	1198	74 / 8750	with cat	1) 2) 3.2) 4) or 1) 2) 3.3) 4)
4)								88 / 7250		





To test report no.

Type:

Manufacturer:

14-00004-CM-MIL-00 D145 Termignoni S.p.A.

Test results Page 1/1

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	,	non original		original	ratio	**)	sured	measured		hom.	sured	measured	
	kW/min⁻¹	kW/min⁻¹	km/h	km /h									
1) A*		101,3 / 8750	ı	-				80				96	
2) B*	101,0/8750	100,5 / 8750			2/3	80	80	80	50	103	93	97	4375
3) C*		100,7 / 8750						80				96	

^{*)} Test series

Remarks:

The alternative caps (mentioned in drawings D145: Tappo tipo "A", D145: Tappo tipo "B" and D145: Tappo tipo "C") have been tested in the test series A, B, and C



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



To test report no. Type: Manufacturer: 14-00004-CM-MIL-00

D145

Termignoni S.p.A.

Test results according pollution

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Type I

Equivalent flywheel mass	290 kg
, , , , , , , , , , , , , , , , , , , ,	3

	CO [g/km]	HC [g/km]	NO _x [g/km]
Test 1	2,067	0,222	0,063
Test 2	1,076	0,145	0,025
Test 3	-	-	-
Average	1,572	0,184	0,044
Limits C, II (Vh≥150cm³)	2,62	0,33	0,22

Type II

Running condition	CO [Vol %]	Engine rpm [min ⁻¹]	Engine oil temperature [K]
Nominal idle speed	0,11	1250	368
Exceeded idle speed	0,09	2300	368

