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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE GRANTING OF COMPONENT TYPE-APPROVAL IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM FOR A TYPE OF MOTORCYCLE PURSUANT TO DIRECTIVE 2006/27/EC

Report No: 374-0089-08-ITA by technical service: TÜV Italia Srl, TÜV SÜD Automotive GmbH
dated: 09 December 2008

Type-approval No: e11*97/24*97/24/9/III*2006/27*0649*00

Reason for extension: Not applicable

1. Make of exhaust: Termignoni

2. Type of exhaust: HCB

3. Name and address of Manufacturer:
Termignoni S.r.l.
Via Della Rampina, 16
15077 Predosa (AL)
Italy

4. If applicable, name and address of manufacturer's authorised 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: 2 December 2008

7. Component type-approval has been GRANTED

8. Place: BRISTOL

9. Date: 22 DECEMBER 2008

10. Signature:

A. W. STENNING
Head of Technical and Quality Group

22-Dec-08
UK Approval Authority

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APPROVAL NUMBER: e11*97/24*97/24/9/III*2006/27*0649*00

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: Not applicable

Total number of sheets:	08 (Eight)
Number of separate drawings:	0 (Nil)
Number of separate photographs:	0 (Nil)

Reasons for Revision: Not applicable

Revision date
&
Office stamp

TERMIGNONI	**INFORMATION DOCUMENT** **N° HCR/97/24 rev. 00**	**Date: 01/12/2008** **Page 1/2**

Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2006/120/EC)

1.	*Make (trade name of manufacturer)*:	Termignoni
2.	*Type and general commercial description:*	HCB
3.	*Name and address of manufacturer:*	Termignoni S.rl. via della Rampina, 16 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*

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH TÜV SÜD

Further details according to directive 97/24/EC, chapter 9, annex III, enclosure 2 A including amendment 2006/120/EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).

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Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2006/120/EC)

Enclosures:

		drawing no.	*date*
c1.	*Drawing of rear silencer*	HCB: SILENCER	01/12/2008
c2.	*Drawing of composition*	HCB: ASSEMBLY	01/12/2008
c3.	*Drawing of reduction*	HCB: TAPPO	01/12/2008
	List of vehicles		
	Fitting instructions		

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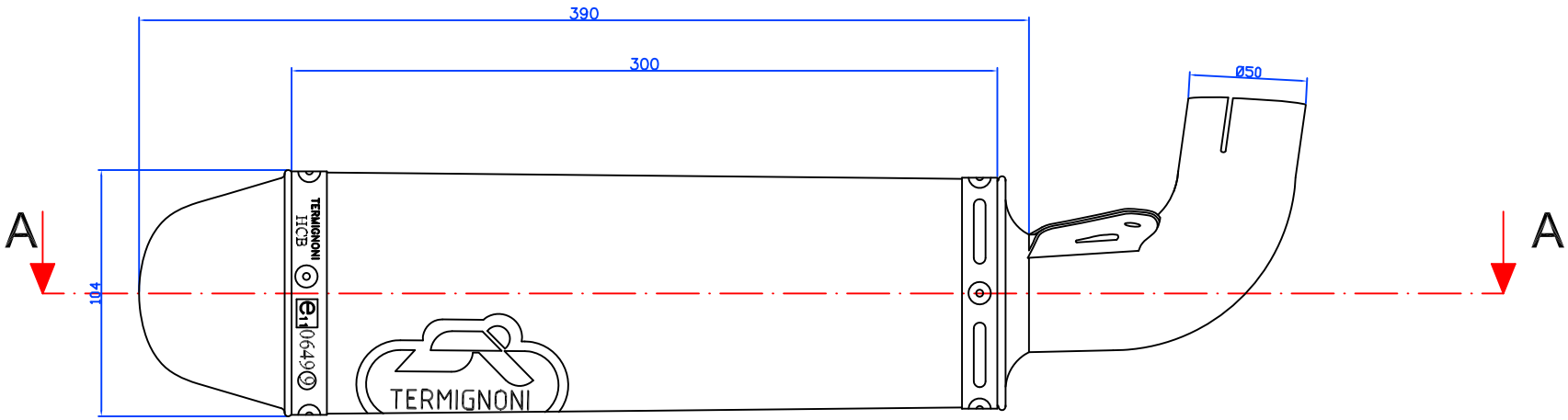
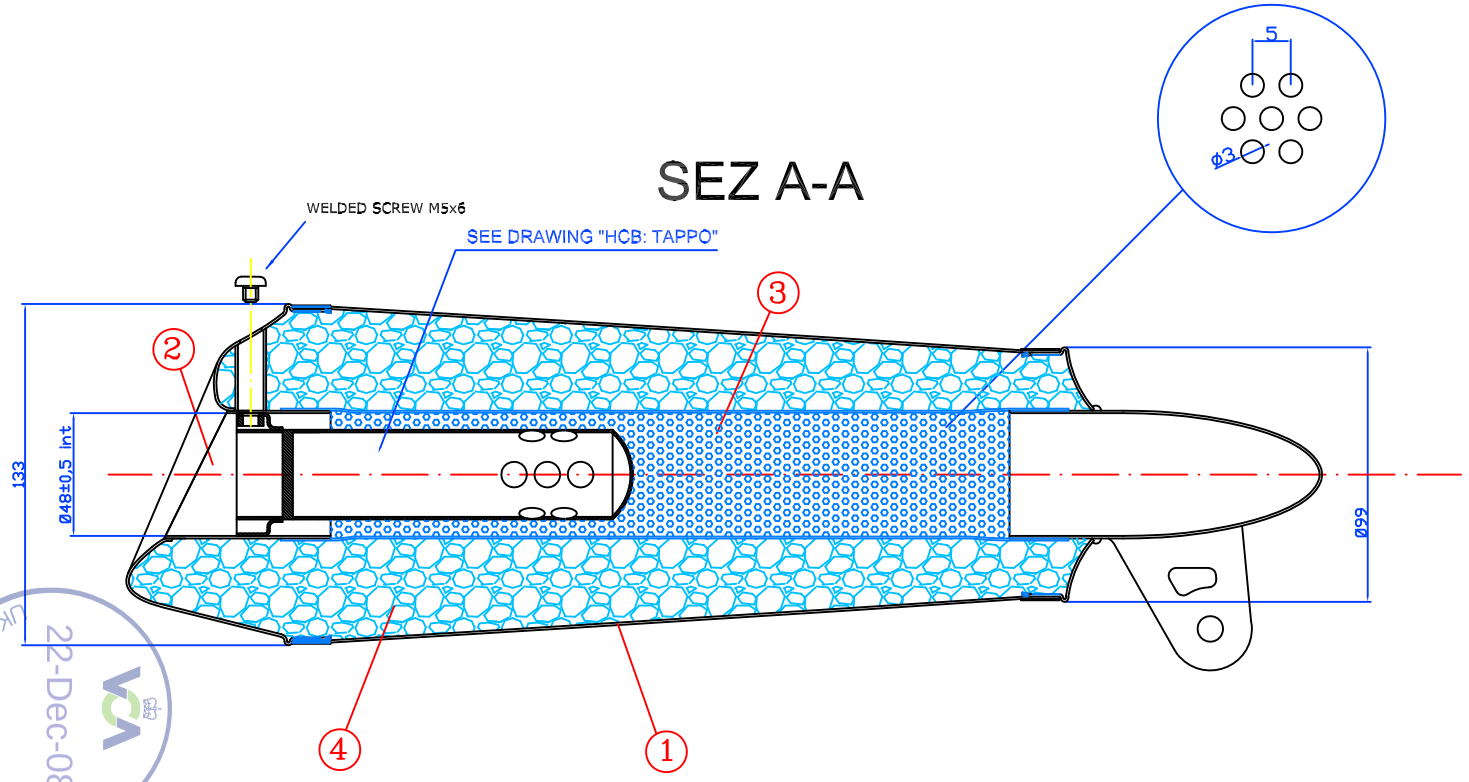
General tolerance: ±1mm





PART LIST

Nr	Part name	Material	Dimensions	Qt.
1	Shell	Alluminium	Sp2mm x See draw	1x
	or	Carbon fiber	Sp1mm x See draw	1x
	or	Titanium	Sp0.6mm x See drawing	1x
	or	Stainless steel	Sp0.6mm x See drawing	1x
2	Outlet pipe	Stainless steel	SEE DRAWING	1x
	or	Titanium	SEE DRAWING	1x
3	Punched-holes pipe	Stainless steel	ø50x0,8	1x
	or	Titanium	ø50x0,8	1x
4	Sound Deadener	Fiberglass	340 g	1x

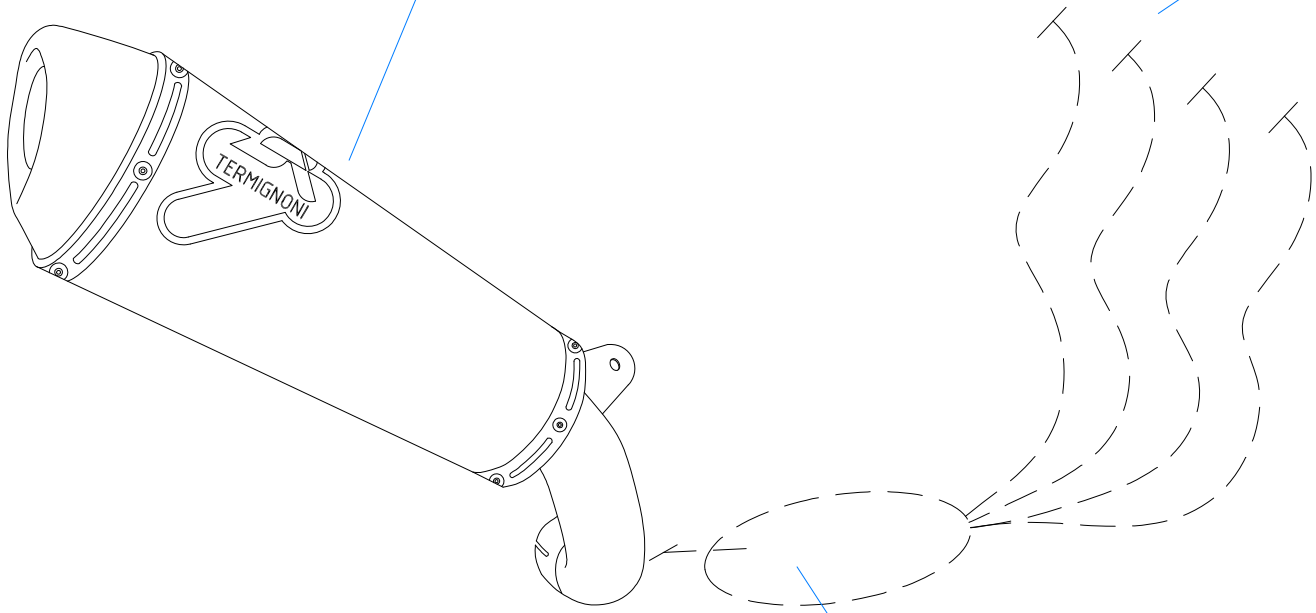
Scale:	Model: HONDA CB 1000 R '08 1 conic sil H080 HCB e11 0649
Date: 01.12.2008	
Name: D.Zancanaro	
Type: HCB: SILENCER	

Termignoni s.r.l.

UK Approval Authority
22-Dec-08

ORIGINAL COLLECTORS

SILENCER
see drawing "HCB: Silencer"



ORIGINAL CATALYTIC CONVERTER

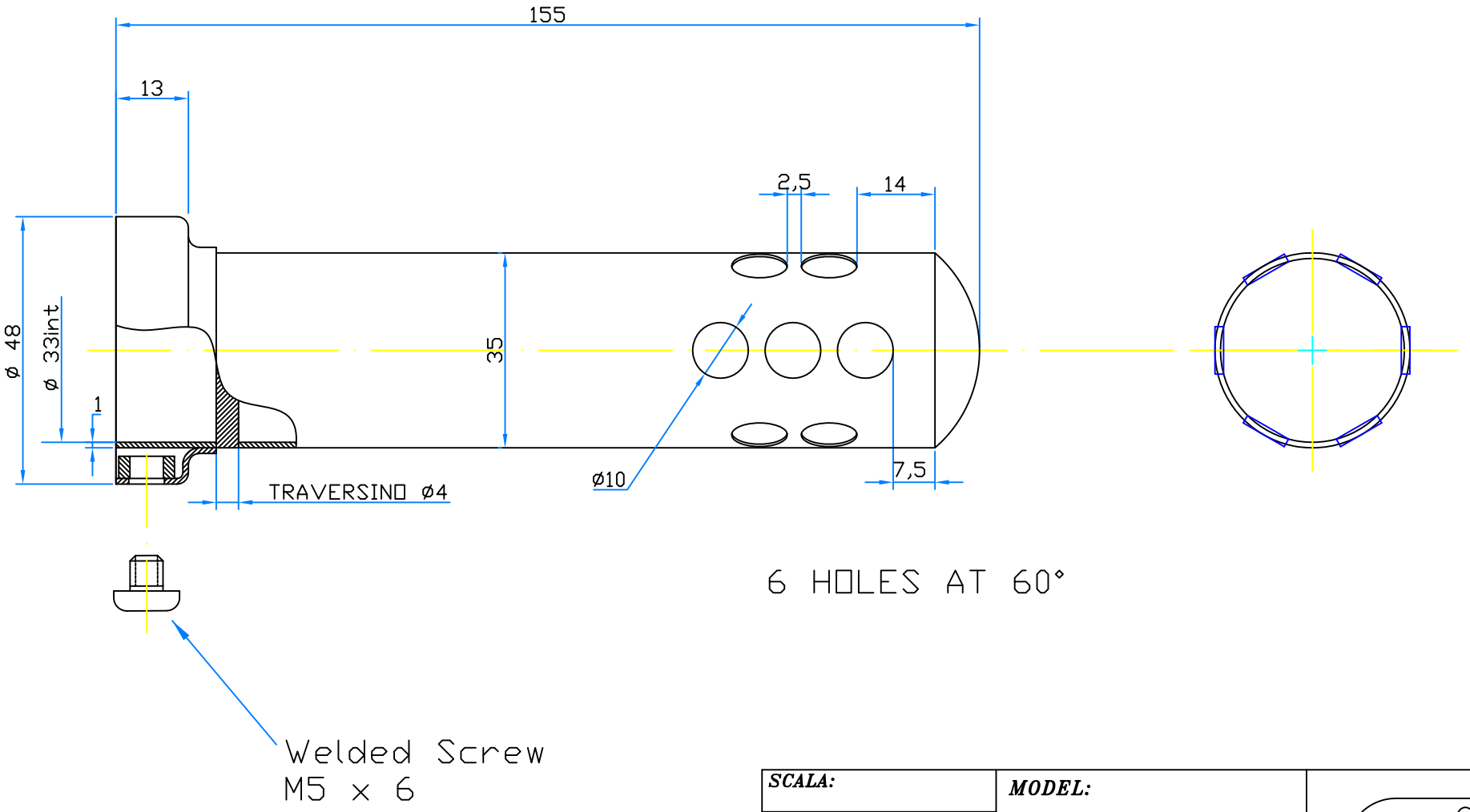
SCALE:	*MODEL:* HONDA CB 1000 R '08 1 conic sil H080 HCB e11 0649 ⑨
DATE: 01.12.2008	
DES: D.Zancanaro	
TYPE: HCB: Assembly	

Termignoni s.r.l.

info@termignoni.it

UK Approval Authority 22-Dec-08

MATERIAL: S.Steel or Titanium



SCALA:	MODEL: HONDA CB 1000 R '08 1 conic sil. COD H080 HCB e11 0649 ⑨
DATUM: 01.12.2008	
NAME: D.ZANCANARO	
TYP: HCB: TAPPO	

Termignoni s.r.l.

info@termignoni.it

Cod. TERMIGNONI TER261

UK Approval Authority 22-Dec-08

INFORMATION DOCUMENT N° HCB/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)	Honda Italia Industriale S.p.A.	HONDA	CB 1000 R	SC60 (e4*2002/24*1912*01)	SC60E	4-stroke	998	92/10000	with cat *)	1.0., c1., c2., c3.

*) The original catalytic converter remain in the original exhaust system.

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P. IVA 00862780061

FITTING INSTRUCTIONS

for Termignoni exhaust systems

A. Dismantling the original exhaust system

1. Remove any casing parts impeding clear access.

2. Detach the silencer support(s) and the original silencer from the branch pipe and/or exhaust manifold.

B. Fitting Termignoni silencers

1. Fit the Termignoni silencer(s) to the original branch pipe, or use the Termignoni branch pipe to fit to 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.

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ISTRUZIONI DI MONTAGGIO

per impianti di scarico Termignoni

A. Smontaggio dell'impianto di scarico originale

1. Rimuovere eventuali parti del rivestimento in modo che non siano d'impaccio.

2. Smontare il/i supporto/i marmitta e la marmitta originale dal tubo di raccordo e/o dal collettore di scarico.

B. Montaggio della marmitta Termignoni

1. Montare la/le marmitta/e Termigoni sul tubo di raccordo originale o utilizzare il tubo di raccordo Termignoni sul collettore di scarico.

2. Fissare la/le marmitta/e con il/i supporto/i in dotazione al veicolo, ma non stringere a fondo le viti ed i bulloni.

3. Disporre l'impianto di scarico in modo tale che anche quando completamente inserito abbia una distanza minima di ca. 5 mm da tutti i componenti del veicolo.

4. Serrare tutti i collegamenti a vite.

5. Effettuare una prova di funzionamento del veicolo, verificare che tutti i collegamenti siano ben fissati, eventualmente stringere ulteriormente.

6. Dopo ca. 100 km controllare nuovamente tutti i collegamenti ed eventualmente stringere le viti ed i bulloni.

ATTENZIONE:
In caso di interventi sull'impianto di scarico dopo una prova di funzionamento, prestare attenzione alla superficie dell'impianto che potrebbe essere molto calda.

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Automotive

TECHNICAL REPORT

No. 374 - 0089 - 08 - ITA

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 and exhaust systems for two or three-wheel motor vehicles

No. ***97/24/EC*** *including the last amendment* ***2006/120/EC dated 27-Nov.-2006***
concerning ***Chapter 9, annex III***
Approval mark according to annex VI point 6.1.1

22-Dec-08
374008908ITA base
VCA Approval Authority

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Automotive

0. Technical description

0.1.	Make:	Termignoni
0.2.	Type:	**HCB**
0.2.1.	Variants:	Not applicable
0.3.	Name and address of the manufacturer:	Termignoni S.r.l. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable
0.5.	Class of the vehicles the unit is used for:	Motorcycle - L3e (according to 2002/24/EC amended 2006/120/EC)

22-Dec-08
374008908ITA base
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Automotive

I. Test object(s)

1.1.	Description of the vehicles the unit is used for:	Notice enclosure b
1.2.	Identification number:	TERMIGNONI HCB e11 0649 9
1.2.1.	Structure of the non-original exhaust system:	Non-original exhaust system, consisting out of one silencer on the right, cone log with elliptic final section: inlet section ∅ 99 mm, final section main axle 133 mm, secondary axle 104 mm, total length 390 mm; absorption- reflection- principle with an outlet pipe ∅ 33 mm with covering pipe ∅ 48 mm according to drawing no. HCB: SILENCER in combination with original header system. Carbon fiber- alternatively aluminium- alternatively titanium- alternatively iron steel-cover.
1.2.2.	List of parts:	See Test Report
1.2.3.	Position of the marking:	On the silencer, see enclosure c1.
1.2.4.	Make Vehicles tested:	HONDA
1.2.5.	Material of the non-original exhaust system:	See Test Report
1.3.	Remarks:	---

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Automotive

II. Test Report

2.1.	Test equipment:	The tests were effected with an equipment that corresponds to the test requirements
2.2.	Condition under which the above mentioned test Records have been achieved:	See Test Reports enclosure
2.2.1	Summary of the Test Records:	See Test Reports enclosure
2.3.	General information about the Tests:	
2.3.1.	Weather condition:	See Test Reports enclosure
2.3.2.	Place of the test:	See Test Reports enclosure
2.3.3.	Date of the test:	See Test Reports enclosure

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Automotive

III. Enclosures

a. Test Report
Composition of the non original exhaust system;
Field of application;
Test Records.

	Number	pages	date
1	374-0090-08-ITA	6	09/12/2008

b. Information Document n° HCB/97/24 rev. 00 01/12/2008

c1. Drawing HCB: SILENCER 01/12/2008

c2 Drawing HCB: ASSEMBLY 01/12/2008

c3. Drawing HCB: TAPPO 01/12/2008

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Automotive

IV. Final confirmation

The named information document and the described type correspond to the Directive 97/24/EC chapter 9, annex III including amendment 2006/120/EC. There are no technical objections against granting an EC Type-approval.

This technical report consists of sheet 1 to 6.

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH

Recognised Expert
Pietro Vergani

pv Sesto San Giovanni (MI), the 09.12.2008

190169

22-Dec-08
374008908ITA base
VCA Approval Authority

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Automotive

TEST REPORT

No. 374 - 0090 - 08 - ITA

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 and exhaust systems for two or three-wheel motor vehicles

No. 97/24/EC including the last amendment 2006/120/EC dated 27-Nov.-2006 concerning chapter 9, annex III
Approval mark according to annex VI point 6.1.1

0. General information

0.1.	Make:	Termignoni
0.2.	Type:	**HCB**
0.2.1.	Variants:	Not applicable
0.3.	Name and address of manufacturer:	Termignoni S.r.l. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable

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22-Dec-08
374009008ITA - CB1000R
EC Approval Authority

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Automotive

0.5.	No. of information document: Date:	HCB/97/24 rev. 00 01/12/2008
1.0.	Class of the vehicles the unit is used for:	Motorcycle - L3e (according to 2002/24/EC amended 2006/120/EC)
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:

Technical unit, consisting out of one silencer on the right, cone log with elliptic final section: inlet section ∅ 99 mm, final section main axle 133 mm, secondary axle 104 mm, total length 390 mm; absorption- reflection- principle with an outlet pipe ∅ 33 mm with covering pipe ∅ 48 mm according to drawing no. HCB: SILENCER in combination with original header system. Carbon fiber- alternatively aluminium- alternatively titanium- alternatively iron steel-cover.

2.2.	Place of marking:	On the silencer, see drawing HCB: 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 middle right side of the vehicle

3. Test report

The tests were carried out in 1 series A at 02/12/2008.

VCA
22-Dec-08
374009008ITA - CB1000R
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Automotive

3. **Test report** (continuation)

Series A: (no. 1)

3.1. Vehicle

	(0.1)	Make:	HONDA
3.1.1.	(0.2.)	Type / variant / version:	SC60 / 1 / 1
3.1.2.	(0.5.)	Manufacturer	Honda Italia Industriale S.p.A.
3.1.3. 3.1.3.1		Homologation no.: Extension:	e4*2002/24*1912 01
3.1.4.		Vehicle identification no.:	*ZDCSC60A09F006748*
3.1.5.		Year of manufacture:	2008
3.1.6.	(2.1)	Weight of the vehicle:	217 kg

3.2. (3.) Engine

3.2.1.	(3.0.)	Manufacturer:	Notice 3.1.2
	(3.1.)	Make:	HONDA
3.2.2.	(3.1.1)	Type:	SC60E
3.2.3.		Engine capacity:	998 cm^3
3.2.4.	(3.2.1.7)	Rated maximum engine power:	92 kW at 10000 min^{-1}

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Automotive

3. **Test report** (continuation)

3.3.	**(4.)**	**Transmission**	
	(4.1)	Drawing of transmission:	Notice vehicle homologation no. s. 3.1.3.
3.3.1.	(4.2)	Kind of transmission:	Mechanical
	(4.3)	Clutch (kind):	Dry multi-plate type
	(4.4)	Gearbox	
3.3.2.	(4.4.1)	Kind	Mechanical
	(4.4.2)	Kind of activity:	Foot shifted
3.3.4.		No of gears	6
3.3.5.	(4.5.)	Transmission ratios: primary / final	Notice vehicle homologation
	(4.6.)	Top speed:	230 km/h
	(5.2.)	Tires:	
		front	120/70 ZR17
		rear	180/55 ZR17
3.4.		Assembly of the exhaust system (no. of parts, enclosure 1):	1.0., c1., c2., c3.

22-Dec-08
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Automotive

3.5. Power measurement

3.5.1. The tested max. power and the engine speed are in the ± 5% tolerance in comparison with the original exhaust system.

3.5.2. Testing of top speed with non-original exhaust system:
Not applicable, because vehicle class : motorcycle

3.6. Conditioning

By pulsation

3.7. Test results

The results of
3.7.1. Sound testing
3.7.2. Power measurement
3.7.3. Top speed
3.7.4. Emission test
are attached in the enclosure 3.
The results of the sound tests with the original and non original exhaust systems fulfil point 3.5.2.1.1 of Directive 97/24/EC chapter 9, including last amendment 2006/120/EC. 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.
Emission test has not been carried out because the non original exhaust system does change neither catalyst nor vehicle performance

3.7.5. The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.

3.7.6. The general specifications concerning point 3.5.1 of Directive 97/24/EC Chapter 9 (including last amendment 2006/120/EC) were checked and were fulfilled by the non original exhaust system / technical unit.

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Automotive

4. Enclosures

Enclosure 1, Composition of the non original exhaust system (Page 1)

Enclosure 2, Field of application (Page 1)

Enclosure 3, Test results (Page 1)

5. Summary

The named information document and the described type correspond to the Directive 97/24/EC including the amendment 2006/120/EC chapter 9, annex III.
There are no technical objections against granting an EC Type-approval.

This test report contains the pages 1 to 6 and enclosures

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD Automotive GmbH

Recognised Expert
Pietro Vergani

pv Sesto San Giovanni (MI), the 09.12.2008

190169

VCA 22-Dec-08 374009008ITA - CB1000R EK Approval Authority

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Automotive

E N C L O S U R E 1 ***to test report no.*** **374-0090-08-ITA**
Type: **HCB**
Manufacturer: **Termignoni S.r.l.**

Composition of the original exhaust system + original parts

No.	Components parts, dimensions in mm	Dimensions of the part in mm or original part / replacement part	Part no. or homologation no.
1.0.	Header pipes	Original parts	-
c1.	Rear silencer	One silencer on the right, cone log with elliptic final section: inlet section ∅ 99 mm, final section main axle 133 mm, secondary axle 104 mm, total length 390 mm; absorption- reflection- principle with an outlet pipe ∅ 33 mm with covering pipe ∅ 48 mm	Drawing HCB: SILENCER
c2	Drawing of composition	Notice drawing	Drawing HCB: ASSEMBLY
c3.	Reduction	Notice drawing	Drawing HCB: TAPPO

UK Approval Authority
22-Dec-08

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Automotive

E N C L O S U R E 2 ***to test report no.*** **374-0090-08-ITA**
Type: **HCB**
Manufacturer: **Termignoni S.r.l.**

List of vehicle ***Page* 1/1**

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)	Honda Italia Industriale S.p.A.	HONDA	CB 1000 R	SC60 (e4*2002/24* 1912*01)	SC60E	4-stroke	998	92/10000	with cat *)	1.0., c1., c2., c3.

*) The original catalytic converter remain in the original exhaust system. A degradation of catalyst efficiency is not expected.

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Automotive

E N C L O S U R E 3 ***to test report no.*** **374-0090-08-ITA**
Type: **HCB**
Manufacturer: **Termignoni S.r.l.**

Test results

- Noise and Power Test

					Sound levels driving vehicle in dB(A)					Sound levels stationary vehicle in dB(A)			
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 mea-sured	Non original measured	at km/h	Vehicle type hom.	Original mea-sured	Non original measured	at min^{-1}
1) A*	86,0 / 9800	83,0 / 9800	-	-	2 / 3	80	80,5	79,75	50	94	94	89	5000

*) test series

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