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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED [(1)]/~~APPROVAL EXTENDED [(1)]/ APPROVAL REFUSED [(1)]/ APPROVAL WITHDRAWN~~ [(1)] TO A COMPONENT TYPE-APPROVAL CERTIFICATE IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM FOR A TYPE OF MOTORCYCLE PURSUANT TO COUNCIL DIRECTIVE 97/24/EC –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

Report No: 374-0023-11-ITA by technical service TÜV Italia Srl, TÜV SÜD Group dated 20 April 2011

Approval No: e11*97/24/9/III*2009/108*0783*00

Extension No: Not applicable

1. Make of exhaust: Termignoni

2. Type of exhaust: BMRR

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 list enclosed

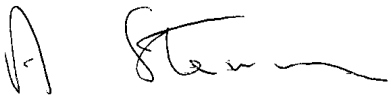
6. Date system submitted for testing: See enclosure

7. Component type-approval GRANTED/~~EXTENDED/REFUSED/WITHDRAWN~~:[(1)]

8. Place: BRISTOL

05-May-11
UK Approval Authority

9. Date: 05 MAY 2011

10. Signature: 

A.W.STENNING
Head of Technical and Quality Support

(1) Delete as appropriate

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APPROVAL NUMBER: e11*97/24/9/III*2009/108*0783*00

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: Not applicable

Total number of sheets:	06 (Six)
Number of separate drawings:	0 (Nil)
Number of separate photographs:	0 (Nil)

Reasons for Revision: Not applicable

Revision date
&
Office stamp

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:*	BMRR
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*

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

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).

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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 2009/108/EC)

Enclosures:

		Drawing no.	*Date*
c1.	*Drawing of rear silencers*	BMRR: SILENCER	28/03/2011
c2.	*Drawing of composition* 24/03/2011	BMRR: ASSEMBLY	
c3.	*List of vehicles*		
c4.	*Fitting instructions*		

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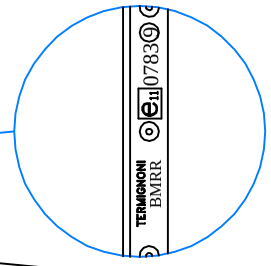
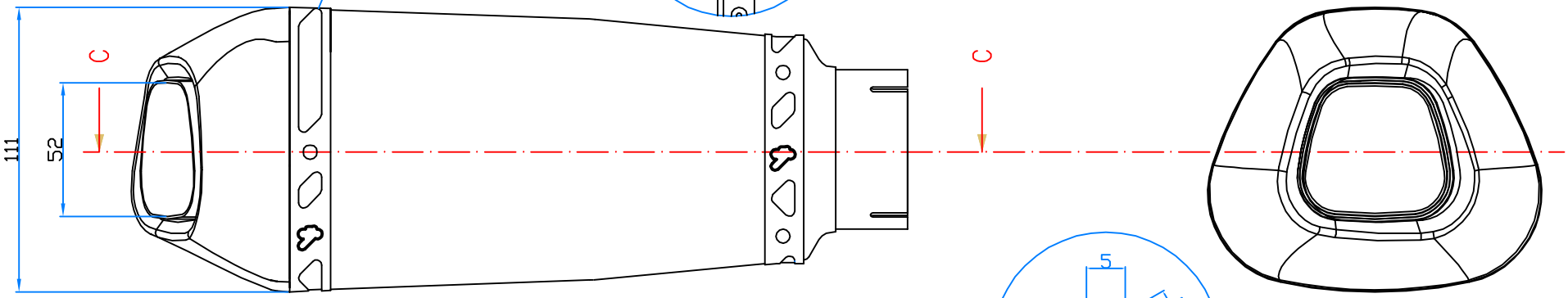
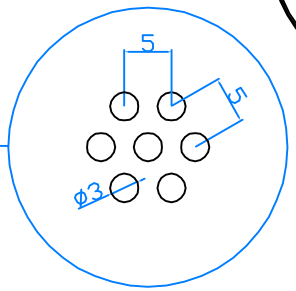
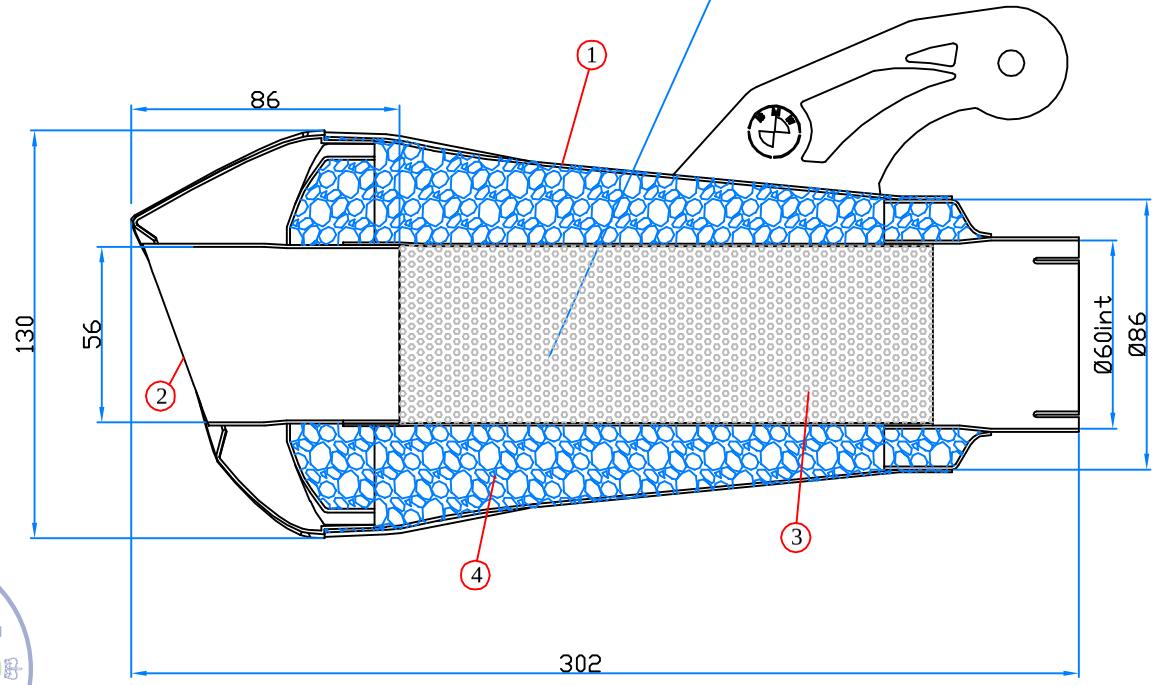
General tolerance: ±1mm

DETAIL NOT IN SCALE









SECTION C—C

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	ø60x0,8	1x
	or	Titanium	ø60x0,8	1x
4	Sound Deadener	Fiberglass	180 g	1x

Scale:	Model: BMW s 1000 RR '10
Date: 28.03.2011	1 sil STR code BW06 BMRR e11 0783
Name: P.Pelizza	
Type: BMRR: SILENCER	

Termignoni S.p.A.

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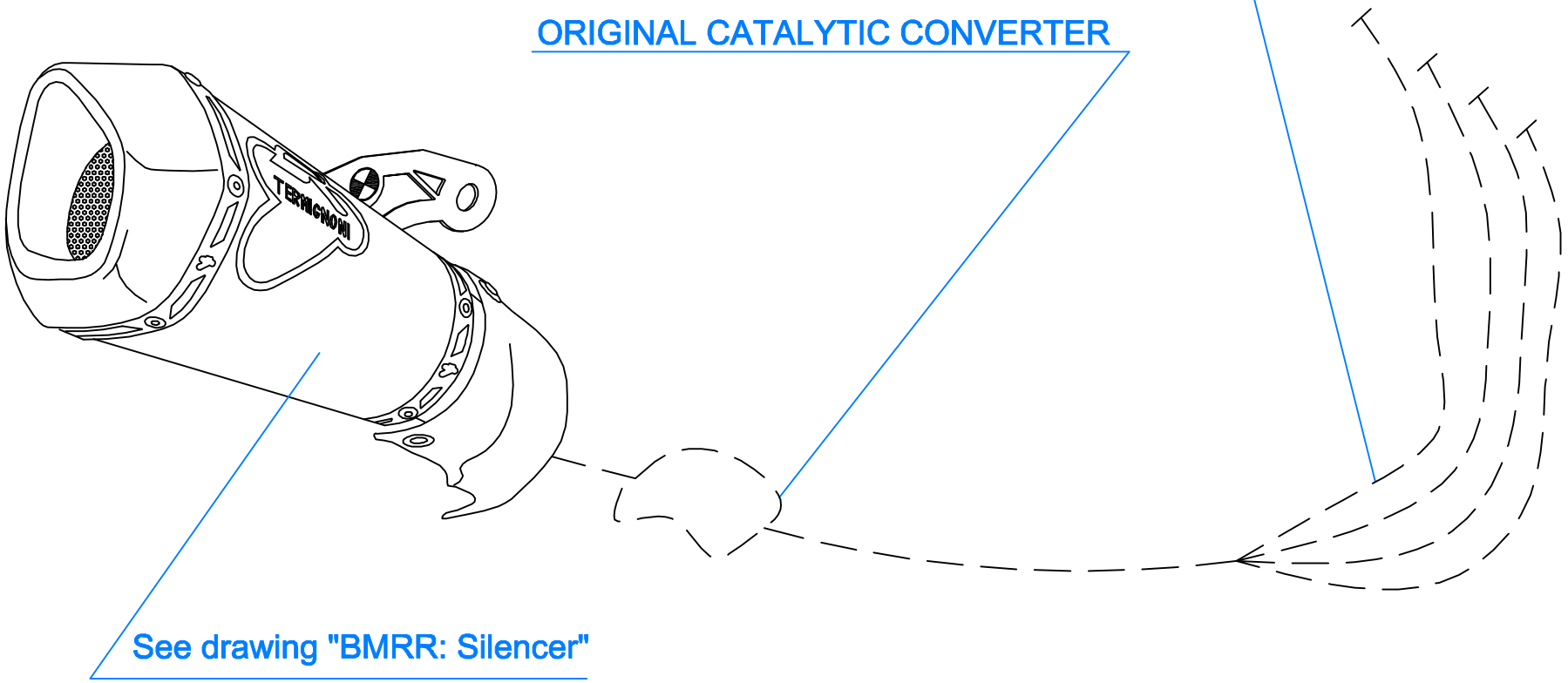

SCALE:	MODEL: BMW S 1000RR 1 sil STR code BW06 BMRR e11 0783 ⑨
DATE: 24.03.2011	
DES: P.Pelizza	
TYPE: BMRR: Assembly	

Termignoni S.p.A.

info@termignoni.it

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INFORMATION DOCUMENT N° BMRR/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)	Bayerische Motoren Werke AG	BMW	S 1000 RR	K10 (e1*2002/24*0421*01)	10 4EA	4-stroke	999	142,0 / 13000	with cat *)	1., c1., c2.

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

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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.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

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TÜV SÜD Automotive GmbH
Westendstraße 199
D-80686 München

Automotive

TECHNICAL REPORT

No. 374 - 0023 - 11 - 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* ***2009/108/EC dated 17-Aug.-2009***
concerning ***Chapter 9, annex III***
Approval mark according to annex VI point 6.1.1

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05-May-11
374002311ITA base
VCA Approval Authority

0. Technical description

0.1.	Make:	Termignoni
0.2.	Type:	**BMRR**
0.2.1.	Variants:	Not applicable
0.3.	Name and address of the manufacturer:	Termignoni S.p.A. Via della Rampina, 1 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

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I. Test object(s)

1.1.	Description of the vehicles the unit is used for:	Notice enclosure b
1.2.	Identification number:	TERMIGNONI BMRR e11 0783 9
1.2.1.	Structure of the non-original exhaust system:	Non-original exhaust system, consisting out of one silencer on the right, maximum shape 111x130 mm, total length 302 mm (with endcap); absorption- reflection- principle with outlet pipe shape 56x52 mm according to drawing no. BMRR: SILENCER in combination with original header system. Carbon fiber- alternatively aluminium- alternatively titanium- alternatively stainless steel-cover.
1.2.2.	List of parts:	See Test Report
1.2.3.	Position of the marking:	On the silencer, see enclosures c1.
1.2.4.	Make vehicles tested:	BMW
1.2.5.	Material of the non-original exhaust system:	See Test Report
1.3.	Remarks:	---

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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 Report enclosure
2.2.1	Summary of the Test Records:	See Test Report enclosure
2.3.	General information about the Tests:	
2.3.1.	Weather condition:	See Test Report enclosure
2.3.2.	Place of the test:	See Test Report enclosure
2.3.3.	Date of the test:	See Test Report enclosure

III. Enclosures

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

	Number	Pages	Date
1	374-0024-11-ITA	6	20/04/2011

b. Information Document n° BMRR/97/24 rev. 00 20/04/2011

c1. Drawing BMRR: SILENCER 28/03/2011

c2. Drawing BMRR: ASSEMBLY 24/03/2011

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IV. Final confirmation

The named information document and the described type correspond to the Directive 97/24/EC chapter 9, annex III including the last amendment 2009/108/EC.
There are no technical objections against granting an EC Type-approval.

This technical report consists of sheet 1 to 6.

Recognised Expert
Pietro Vergani

fs Sesto San Giovanni (MI),
the 20.04.2011

208708

05-May-11
374002311ITA base
VCA Approval Authority

TÜV SÜD Automotive GmbH
Westendstraße 199
D-80686 München

Automotive

TEST REPORT

No. 374 - 0024 - 11 - 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 2009/108/EC dated 17-Aug.-2009 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:	**BMRR**
0.2.1.	Variants:	Not applicable
0.3.	Name and address of manufacturer:	Termignoni S.p.A. Via della Rampina, 1 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable

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05-May-11
374002411ITA - BMW S1000RR
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0.5.	No. of information document: Date:	BMRR/97/24 rev. 00 20/04/2011
1.0.	Class of the vehicles the unit is used for:	Motorcycle L3e (according to 2002/24/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, complete exhaust system, consisting out of one silencer on the right, maximum shape 111x130 mm, total length 302 mm (with endcap); absorption-reflection- principle with outlet pipe shape 56x52 mm according to drawing no. BMRR: SILENCER.

2.2.	Place of marking:	On the silencer see drawings BMRR: 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 of the vehicle, right side

3. Test report

The tests were carried out in 1 series A at 04/04/2011.

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374002411ITA - BMW S1000RR
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3. **Test report** (continuation)

Series A: (no. 1)

3.1. **Vehicle**

	(0.1)	Make:	BMW
3.1.1.	(0.2.)	Type / variant / version:	K10 / 0507 / A
3.1.2.	(0.5.)	Manufacturer	Bayerische Motoren Werke AG
3.1.3.		Homologation no.:	e1*2002/24*0421*
3.1.3.1		Extension:	01
3.1.4.		Vehicle identification no.:	*WB1050703AZV32053*
3.1.5.		Year of manufacture:	2010
3.1.6.	(2.1)	Weight of the vehicle:	202 kg

3.2. **(3.)** **Engine**

3.2.1.	(3.0.)	Manufacturer:	Notice 3.1.2
	(3.1.)	Make:	BMW
3.2.2.	(3.1.1)	Type:	10 4EA
3.2.3.		Engine capacity:	999 cm^3
3.2.4.	(3.2.1.7)	Rated maximum engine power:	142 kW at 13000 min^{-1}

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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:	Manual
	(4.3)	Clutch (kind):	Multi-plate
	(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 / secondary	Notice vehicle homologation no. s. 3.1.3.
	(4.6.)	Top speed:	Notice vehicle homologation no. s. 3.1.3.
	(5.2.)	Tires: front rear	 120/70 ZR17 M/C 190/55 ZR17 M/C
3.4.		Assembly of the exhaust system (no. of parts, enclosure 1):	1., c1., c2.

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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

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 2009/108/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 doesn't change the 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 2009/108/EC) were checked and were fulfilled by the non original exhaust system / technical unit.

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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 2009/108/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

fs Sesto San Giovanni (MI),
the 20.04.2011

208708

05-May-11
374002411ITA - BMW S1000RR
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D-80686 München

Automotive

E N C L O S U R E 1 ***to test report no.*** **374-0024-11-ITA**
Type: **BMRR**
Manufacturer: **Termignoni S.p.A.**

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.	Header pipes	Original part	--
c1.	Rear silencer	One silencer on the right, maximum shape 111x130 mm, total length 302 mm (with endcap); absorption- reflection- principle with outlet pipe shape 56x52 mm according to drawing no. BMRR: SILENCER.	Drawing BMRR: SILENCER
c2.	Drawing of composition	Notice drawing	Drawing BMRR: ASSEMBLY

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E N C L O S U R E 2 ***to test report no.*** **374-0024-11-ITA**
Type: **BMRR**
Manufacturer: **Termignoni S.p.A.**

Field of application

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)	Bayerische Motoren Werke AG	BMW	S 1000 RR	K10 (e1*2002/24*0421*01)	10 4EA	4-stroke	999	142,0 / 13000	with cat *)	1., c1., c2.

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

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E N C L O S U R E 3 ***to test report no.*** **374-0024-11-ITA**
Type: **BMRR**
Manufacturer: **Termignoni S.p.A.**

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*	142 / 13000	143 / 13000	-	-	2 / 3	80	81	81	50	103	103	103	6500

*) test series

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