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14509_2008 Sound en240408

CERTIFICATION APPLICATION and TEST REPORT
SMALL CRAFT - Measurement of Airborne Sound emitted by
Powered Recreational Craft
Ref.: ISO 14509:2008

FOR IMCI / IMCI (UK) USE ONLY
Certificate No.:

This application is valid for:	Indicate
Directive 2013/53/EU (RCD II) related to CE marking for EU.	[Yes, No] <input type="text"/>
Recreational Craft Regulation (RCR) related to UKCA marking for United Kingdom	[Yes, No] <input type="text"/>

Manufacturer applying for certificate	<input type="text"/>
Type: Boat manufacturer (BM) or Engine manufacturer (EM)	<input type="text"/>
Address:	<input type="text"/>
ZIP Code:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
VAT # (for EU only):	<input type="text"/>
Signatory, Name:	<input type="text"/>
Signatory, Title:	<input type="text"/>
Head of Engineering, Name:	<input type="text"/>
Phone:	<input type="text"/>
Email:	<input type="text"/>
WWW:	<input type="text"/>
Model year	<input type="text"/>
Boat Manufacturer:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
Engine Manufacturer:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
Drive Manufacturer:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
Exhaust Muffler Manufacturer:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
Boat Model Name:	<input type="text"/>
Watercraft Identification Number:	<input type="text"/>
Engine Model Name:	<input type="text"/>
Engine Serial Number:	<input type="text"/>
Drive Model Name:	<input type="text"/>
Muffler Model Name:	<input type="text"/>

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Page 2 for Engine Model:

Page 2 for Drive Model:

Page 2 for Boat Model:

	<u>Reference</u>	<u>Unit</u>	<u>As tested</u>
1 Boat type (<u>P</u> ower, <u>S</u> ail, <u>PWC</u>)		[P, S, PWC]	
2 Length of the hull (<u>L_H</u>)	ISO 8666	[m]	
3 Waterline length (<u>L_{WL}</u>)	ISO 8666	[m]	
4 Beam of hull (<u>B_H</u>)	ISO 8666	[m]	
5 Loaded displacement mass (<u>m_{LDC}</u>)	ISO 8666	[kg]	
6 Primary hull material (<u>W</u> ood, <u>S</u> teel, <u>A</u> luminium, <u>FRP</u> , others)		[W, S, A, FRP, ?]	
7 Bottom type configuration (<u>V</u> , <u>F</u> lat, <u>R</u> ound, <u>M</u> ulti, others)		[V, F, R, M, ?]	
8 Boat type (<u>P</u> laning, <u>N</u> on-planing, other)		[P, N, ?]	
9 Deck configuration (<u>O</u> pen bow, <u>C</u> losed <u>D</u> eck, <u>C</u> abin, other)		[O, CD, C, ?]	
10 Integral Swim Platform (<u>F</u> illed, <u>H</u> ollow, <u>N</u> one)		[F, H, N]	
11 Engine type (<u>S</u> park ignition, <u>C</u> ompression ignition)		[S, C]	
12 Number of engines			
13 Number of cylinders per engines			
14 Declared engine power at crankshaft (n.a., if next line used)	ISO 8665	[kW]	
15 Declared engine power at propeller-shaft (n.a., if previous line used)	ISO 8665	[kW]	
16 Declared engine speed	ISO 8665	[min ⁻¹]	
17 Recommended engine speed range if applicable	ISO 8665	[min ⁻¹]	
18 Aspiration type (<u>N</u> aturally, <u>T</u> urbocharged, <u>T</u> urbocharged <u>A</u> fter cooled, <u>S</u> upercharged)	ISO 15550	[N, T, TA, S]	
19 Engine displacement		[cm ³]	
20 Drive type (<u>S</u> terndrive, <u>S</u> ail <u>D</u> rive, <u>S</u> haft, <u>J</u> et, <u>O</u> ut <u>B</u> oard)		[S, SD, SH, J, OB]	
21 Drive ratio			
22 Drive gear teeth (only, if needed for sound spectrogram analysis)			
23 Propeller/impeller pitch			
24 Propeller/impeller diameter		[mm]	
25 Number of propeller/impeller blades		[#]	
26 Primary exhaust outlet location related to water line (<u>A</u> bove, <u>A</u> T, <u>B</u> elow)		[A, AT, B]	
27 Primary exhaust outlet cross section		[mm ²]	
28 Secondary exhaust outlet location related to water line (<u>A</u> bove, <u>A</u> T, <u>B</u> elow)		[A, AT, B]	
29 Secondary exhaust outlet cross section		[mm ²]	
30 Exhaust muffler type (<u>W</u> ater-lift, re <u>A</u> ctive, re <u>S</u> istive, <u>U</u> nderwater)		[W, A, S, U]	
31 Notes			

As the boat / engine manufacturer or his authorised representative, I declare under sole responsibility that the above product to which this declaration relates is in conformity with the referenced requirements. This application has not lodged with any other notified body / conformity assessment body.

Date (yymmdd) and Signature of Manufacturer or his authorised Representative:

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Application review

Application accepted for IMCI: clear name, date (yymmdd) [Yes, No]

Application accepted for IMCI (UK): clear name, date (yymmdd) [Yes, No]

Comments to application or reason(s) if refused:

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TEST REPORT

Results of Sound Emission Measurements of Small Craft according to ISO 14509

Page 3 for Engine Model: _____

Page 3 for Drive Model: _____

Page 3 for Boat Model: _____

1	Test number:		
2	Test site location:		
3	Test site specification:		
4	Date of test	[yy/mm/dd]	
		Unit	As tested
5	Environmental conditions - Wind speed	[m/s]	
6	Environmental conditions - Wind direction	[°]	
7	Environmental conditions - Wave height	[mm]	
8	Environmental conditions - Test course direction (& relative position of microphone)	[°]	
9	Nature of test (Type Test/Monitoring Test)	[T, M]	
10	Sound level meter manufactured by		
11	Sound level meter model #		
12	Sound level meter serial #		
13	Sound level meter, calibration date	[yy/mm/dd]	
14	Sound level meter, calibration report traceable to accredited calibration attached	[Yes?]	
15	Sound calibrator manufactured by		
16	Sound calibrator model #		
17	Sound calibrator serial #		
18	Sound calibrator, calibration date	[yy/mm/dd]	
19	Sound calibrator, calibration report traceable to accredited calibration attached.	[Yes?]	
20	Microphone position (<u>S</u> hore, <u>W</u> ater (i.e. on a post), <u>B</u> oat)	[S, W, B]	
21	Exhaust outlet location during the measurements related to water line (<u>A</u> bove, <u>A</u> T, <u>B</u> elow)	[A, AT, B]	
22	Test operating load acc. ISO 14509-1, cl. 10.2	[kg]	
23	Fuel load as a percentage of tank capacity	%	
24	Notes		
25	Port side average $L_{pASmaxPort}$ (See page 4)	[dB]	
26	Related boat speed, port side (See page 4)	[km/h]	
27	Starboard side average $L_{pASmaxStarboard}$ (See page 4)	[dB]	
28	Related boat speed, starboard side (See page 4)	[km/h]	
29	Maximum AS-weighted sound pressure level L_{pASmax}	[dB]	
30	Related boat speed, L_{pASmax}	[km/h]	

Herewith I declare that all requirements set by ISO 14509 Part 1 are met.

31	Person responsible for the test (clear name)	
32	Person responsible for the test (title)	
33	Qualification of the test: a) witness by inspector b) remote inspection c) delivery of video d) proof of training of responsible person	
34	Place and date of the test	
	Signature:	

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Page 4 for Engine Model

Page 4 for Drive Model

Page 4 for Boat Model:

Test number:

Run	Side	File #	Craft Speed	Engine Speed	Measurement Distance	L'pASmax	L"pAS	Background noise correction	Distance correction	LpASmax	Notes
No.	Port/Starboard	ID-1	[km/h]	[min ⁻¹]	[m]	[dB]	[dB]	[dB]	[dB]	[dB]	
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

Pre-test calibration result dB
 Post-test calibration result dB

Performed before test #
 Performed after test #

Difference ≤ 0,4 db (YES) (NO)
 please tick as appropriate

L'pASmax is the measured maximum AS-weighted sound pressure level during the passage of the craft

L"pAS is the AS-weighted background sound pressure level measured according immediately before and immediately after the passage of the craft

LpASmax is the maximum AS-weighted sound pressure level after applying background noise correction and distance correction, if applicable

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TEST REPORT

Results of Sound Emission Measurements of Small Craft according to ISO 14509

Page 3 for Engine Model: _____

Page 3 for Drive Model: _____

Page 3 for Boat Model: _____

For IMCI / IMCI (UK) Inspector use (if applicable)

I declare under our sole responsibility that I have not been active for the manufacturer in design, construction, marketing or other activities. The content of this forms have been checked.

Place of inspection: _____

Date of inspection report (yymmdd): _____

Inspection done by Inspector: Stamp, Clear Name, Signature:

Comments on Inspection by Inspector:

This page is only for IMCI / IMCI (UK) office use

Inspection details if done at IMCI / IMCI (UK) office

Inspection report date (yymmdd): _____

Inspection done by: Clear Name, Signature:

Comments on Inspection report by Office:

Review

Review by Office: Clear Name, Signature and Date (yymmdd): _____

Comments on Review by Office:

The certification decision is made by signing and dating the corresponding IMCI certificate