



53 Rodney Street, Liverpool L1 9ER, United Kingdom
+44-151-528 3096 info@imci-uk.org imci-uk.org

Rue Abbé Cuyppers 3, B-1040 Brussels, Belgium
+32-2-741 6836 info@imci.org imci.org

IMCI (UK) and International Marine Certification Institute (UK) are registered trademarks of the "International Marine Certification Society" registered in the UK under company number 12718057

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

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

This application is valid for:

Directive 2013/53/EU (RCD II) related to CE marking for EU.

[Yes, No]

Indicate

Recreational Craft Regulation (RCR) related to UKCA marking for United Kingdom

[Yes, No]

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

Page 2 for Engine Model:

Page 2 for Drive Model:

Page 2 for Boat with Craft Identification Number:

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

[Redacted signature area]

For IMCI / IMCI (UK) office use only

Application review

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

[Redacted response area]

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

[Redacted response area]

Comments to application or reason(s) if refused:

[Redacted comment area]

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 with Craft Identification Number: _____

1	Test number:		
2	Test site location:		
3	Test site specification:		
4	Date of test		
		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 micropho	[°]	
9	Nature of test (<u>T</u> ype Test/ <u>M</u> onitoring 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	[dd/mm/yy]	
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	[dd/mm/yy]	
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 mass 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	Date and Place of the test	
	Signature:	



Page 4 for Engine Model

Page 4 for Drive Model

Page 4 for Boat with Craft Identification Number:

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

Performed before test #

Post-test calibration result

_____ dB

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

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 with Craft Identification Number: _____

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

I declare under our sole responsibility that the above product(s) has (have) been developed without my involvement.
The content of this form has 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:

Certification decision

Certification decision by Office: Clear Name, Signature and Date (yymmdd):

Comments on Certification decision by Office:
