

Choose certainty. Add value. TÜV-SÜD Product Service, Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire, United Kingdom, PO15 5RL Tel: +44 (0) 1489 558100 Website: <u>www.tuv-sud.co.uk</u>

COMMERCIAL-IN-CONFIDENCE

## STATEMENT OF TEST

CLIENT Daniamant Limited Unit 3. The Admiral Park Airport Service Road Portsmouth, Hampshire United Kingdom, PO3 5RQ DOCUMENT

75941445 SOT 03 Issue 1

CLIENT'S ORDER NUMBER

PC0001837, dated 16.01.2018

INCOMING RELEASE NOTE

DATE OF RECEIPT

EQUIPMENT UNDER TEST (EUT)

Delivery List, dated 16.01.2018

18 January 2018

L162 & L163 Lifebuoy Lights, comprising the following;

_		Description	Model	№ Tested	Sample Ref №	Test
	1	Lifebuoy Light	L162	1	14	Test 1, 2 & 3
	2	Lifebuoy Light	L163	1	16	Test 1, 2 & 3

**TEST SPECIFICATION / ISSUE** 

DEVIATIONS FROM THE STANDARD

1. The Thermal Cycling Test cold test level specified as -30°C was altered to be a more severe condition at -52°C.

2. The Operation requirement to be floating and immersed in water was

1. IMO LSA:2010 para 1.2.1, 10.2.2, 10.4.9 & 10.4.10 (Lifebuoy Lights). 2. MSC.1-Circ.980:2001. Sections 2.1.2.2, 2.1.2.3 & 2.1.2.3 (Lifebuoy Lights).

rescinded by Daniamant email P.Stubbs/G.Shadbolt(TÜV) dated 08.02.2018. 3. The operation period (Test 2) is extended to 15h to satisfy USCG requirements.

DATE OF TEST

TEST(S) DESCRIPTION

Temperature & Light Tests on the L162 And L163 Lifebuoy Lights

The following tests were required by the specification:

Test	Description	Test Parameters	Operation	
1	Temperature Cycling 2 units tested for x10 cycles between -52°C to +65°C   for 8h at each temperature condition.		The units are switched OFF during the test and are examined and operated before and after the test.	
2	Operation at Cold Temperature.	Both units stored for 8h at -52°C and operated at -1°C for 15h. See Deviation 2 above	Stabilise the lights at the test temperature and switch ON all lights. Check the flash rate is between 50-70 flashes per minute. Monitor and record the battery voltage.	
3	Light Tests	Each unit tested for Luminous Intensity, Flash Rate/Duration and Chromaticity, at the lowest battery voltage recorded during Test 2.	The test is carried out at the laboratory of OptiConsulting Ltd, Buxton SK17 6UG, UK The battery voltages after Test 2 and maintained for the light test were 4.96 V (L162) and 4.92 V (L163).	

22 January to 15 March 2018

## RESULT(S) OF TEST

The test requirements were satisfied for all tests, as stated below.

Thermal Cycling:	A visual examination and performance assessment after the test was reported as satisfactory.
Operation at Temperature:	Visual examinations and performance assessments during and after the test were reported as satisfactory. Light flash rates met the requirements and were between 50 to 70 flashes per minute.
Light Tests:	Flash rate/duration, Luminous Intensity (≥2 cd) and chromaticity were compliant and satisfactory.

This certificate relates only to the actual item/items tested.

Approved by

S Boddison

S Boddison Authorised Signatory



Date 18 April 2018

Page 1 of 1