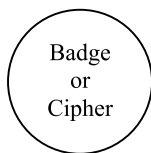


APPENDIX 2



NAME OF ADMINISTRATION

CERTIFICATE OF TYPE APPROVAL FOR 15 PPM BILGE ALARM

This is to certify that the 15 ppm Bilge Alarm, comprising the equipment listed below, has been examined and tested in accordance with the requirements of the specifications contained in part 2 of the annex to the Guidelines and Specifications contained in IMO resolution MEPC.107(49). This Certificate is valid only for the 15 ppm Bilge Alarm referred to below.

15 ppm Bilge Alarm supplied by

under type and model designation
and incorporating:

15 ppm Bilge Alarm analysing unit manufactured by

to specification/assembly drawing No. date

Electronic section of 15 ppm Bilge Alarm manufactured by

to specification/assembly drawing No. date.....

*Sample feed pump manufactured by

to specification/assembly drawing No. date.....

*Sample conditioning unit manufactured by

to specification/assembly drawing No. date.....

The 15 ppm Bilge Alarm is acceptable for use in accordance with regulation 16(5).

A copy of this Certificate should be carried aboard a vessel fitted with this 15 ppm Bilge Alarm at all times.

Test data and results attached as appendix.

Official stamp

Signed:.....

Administration of

Dated this day of 20....

* Delete as appropriate.

APPENDIX

TEST DATA AND RESULTS OF TESTS CONDUCTED ON A 15 PPM BILGE ALARM IN ACCORDANCE WITH PART 2 OF THE ANNEX TO THE GUIDELINES AND SPECIFICATIONS CONTAINED IMO RESOLUTION MEPC.107(49)

15 ppm Bilge Alarm submitted by

Test location

Method of sample analysis

Samples analysed

Environmental testing of the electronic section of the 15 ppm Bilge Alarm has been carried out in accordance with part 3 of the annex to the Guidelines and Specifications contained in IMO resolution MEPC.107(49). The equipment functioned satisfactorily on completion of each test specified on the environmental test protocol.

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CALIBRATION TEST AND RESPONSE TIME

Test Fluid	A		B		C	
	Measured	Grab sample	Measured	Grab sample	Measured	Grab sample
0 ppm						
15 ppm						
Full scale (ppm)						
Water Temperature	°C		°C		°C	
Re-zero	Yes/No		Yes/No		Yes/No	
Recalibrate	Yes/No		Yes/No		Yes/No	
Response Time	sec		sec		sec	

CONTAMINANT(S) AND COLOUR TEST		
Non-oil particulate matter		
Meter reading shift with ppm non-oil particulate contaminants and with very salt water .		
Oil Content Meter Reading		
Clean water and 10 ppm Test Fluid “B”		ppm
Very salt water		ppm
Iron Oxide	10 ppm	ppm
Iron Oxide	50 ppm	ppm
Iron Oxide	100 ppm	ppm

SAMPLE PRESSURE OR FLOW TEST

15 ppm Bilge Alarm reading shift at 50% of normal	... ppm
15 ppm Bilge Alarm reading shift at 200% of normal	... ppm
Deviations from this test should be stated if necessary	

SHUT OFF TEST

15 ppm Bilge Alarm reading before shut-off	... ppm
15 ppm Bilge Alarm reading after start-up (minimum dry period 8 hours)	... ppm

Damage to 15 ppm Bilge Alarm as follows:

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UTILITIES SUPPLY VARIATION TEST

110% voltage effects
90% voltage effects
110% air pressure effects
90% air pressure effects
110% hydraulic pressure effects
90% hydraulic pressure effects

OTHER COMMENTS

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CALIBRATION AND ZERO DRIFT TEST

Calibration drift ... ppm

Zero drift ... ppm

Signed.....Dated.....Official stamp

(Official stamp or equivalent identification and the date of approval to be placed on all pages of the test protocol)

RESOLUTION MEPC.107(49)
Adopted on 18 July 2003
REVISED GUIDELINES AND SPECIFICATIONS FOR POLLUTION
PREVENTION EQUIPMENT FOR MACHINERY SPACE BILGES OF SHIPS