

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Oil-content meters

with type designation(s)
15 ppm Bilge Alarm, Model XOC-01

Issued to

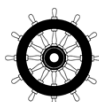
Jiujiang Gongchuang Machinery Equipment Co., Ltd.
Jiujiang, China

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/2.3 and Annex B, Module B in the Directive. Marpol 73/78 as amended, Annex I Regulation 16, IMO Res. MEPC.107(49)

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2015-09-18
for **DNV GL AS**



This Certificate is valid until
2020-09-17

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Wuhan

Pål Evang Nundal
Surveyor

Product description

The equipment is intended for installation onboard ships for bilge water monitoring/ alarm - max.15 ppm of oil contents at discharge overboard.

The 15ppm Bilge Alarm is designed and tested to meet the requirements of the IMO Resolution MEPC.107(49).

Application/Limitation

The equipment is not permitted to be installed in spaces subject to explosion hazards.

Type Examination documentation

Drw. No.	Date/ Rev.	Title;
XOC-00	2010-03-28	Assembly map
XOC-00Y	2010-03-30	Electrical schematic (3 shts.)
XOC-00J	2010-03-29	Wiring diagram
XOC-01	2010-03-29	Closures
XOC-02	2010-03-29	Upper of connector
XOC-03	2010-03-29	Glass
XOC-04	2010-03-29	Measurement box (2 shts.)
XOC-05	2010-03-29	Measuring lid
XOC-06	2010-03-29	Measurement of stent
XOC-06-01	2010-03-29	Launch tube
XOC-06-01-1	2010-03-29	Launch tube sets
XOC-06-02	2010-03-29	Measurement base
XOC-06-03	2010-03-29	Transmission tube
XOC-06-03-1	2010-03-29	Transmission pipe
XOC-06-04	2010-03-29	Refraction tube
XOC-06-04-1	2010-03-29	Refraction tube socket
XOC-07	2010-03-29	Bottom of connector
XOC-08	2010-03-29	Joint 1
XOC-09	2010-03-29	Limit switch bracket
XOC-010	2010-03-29	Joint 2
XOC-011	2010-03-29	Polyn
XOC-012	2010-03-29	Nameplate
XOC-013	2010-03-29	Mask
XOC-014	2010-03-29	Gasket
XOC-015	2010-03-29	Display board
XOC-016	2010-03-29	Door of box
XOC-016-1	2010-03-29	Portosystemic
XOC-016-2	2010-03-29	Installation board
XOC-016-3	2010-03-29	Printer mounting bracket
XOC-017	2010-03-29	Mounting brackets 1
XOC-018	2010-03-29	Mounting brackets 2
XOC-019	2010-03-29	Box
XOC-020	2010-03-29	Preamp board
XOC-021	2010-03-29	Data-processing board
XOC-022	2010-03-29	Tubing/ Piping Digram

Operation Manual – 15ppm Bilge Alarm – Model XOC-01

Tests carried out

-Jiujiang Gongchang Machinery Equipment Co., Ltd., XOC-01 15 ppm Bilge Alarm, Steps and Methods of Type Approval Test,
July 2010
-Changjiang Mid-reach Water Environment Monitoring Center of Hydrology Bureau of Changjiang Water Resources
Commission, Test Report No. SJZ(2010) No.29, Type Test for Monitoring Water Quality of Bilge Alarm System XOC-01,
dated July 18, 2010.
-Wuhan Environment and Reliability Test Center for Mechanical and Electrical Products of China Shipbuilding Industry
Corporation, Test Report Nos. CHKS2010-276, Environmental Testing of 15 ppm Bilge Alarm System XOC-01, July 2010.
-Wuhan Environment and Reliability Test Center for Mechanical and Electrical Products of China Shipbuilding Industry
Corporation, Report No. Test 2010-060, Electromagnetic Compatibility Test Report for 15 ppm Bilge Alarm System XOC-01,
July 12, 2010.
-China National Quality Supervision and Test Centre for Explosion Protected Electrical Products, Assessment and Test Report
No. 1006W023, Enclosure (IP54), dated 2010-06-12.

Marking of product

For traceability to this EC Type-Examination, each unit to be marked with;

- Manufacturer's name and trade mark
- Type designation
- Serial No.
- Mark of Conformity

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.