

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Oil-content meters

with type designation(s)
Type JOWA 15ppm Bilge Alarm

Issued to
Jowa AB
Kållerød, Sweden

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306**,
item No. MED/2.3. Marpol 73/78 as amended, Annex I Regulation 14, IMO Res.
MEPC.107(49), IMO MEPC.1/Circ. 643

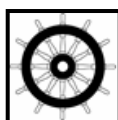
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-06-20**.

Issued at **Høvik** on **2018-06-21**

DNV GL local station:
Gothenburg

Approval Engineer:
Dag Sæle-Nilsen



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-001390-5**
Certificate No: **MEDB000042V**

Product description

The equipment is intended for installation onboard ships for bilge water monitoring/ alarm - max.15 ppm 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

Tests carried out

- TEi-Testing Services, LLC, Plumbing Laboratory, USA, Report of Test P00770, JOWA AB, dated 01 Oct. 2007, Testing of 15ppm Bilge Alarm according IMO Resolution MEPC.107(49), Part 2, and USCG CFR Title 46, Part 162, Subpart 162.050.
- TEi-Testing Services, LLC, Plumbing Laboratory, USA, Summation Certificate TS-P00770, JOWA AB, dated 01 Oct. 2007, Summation Test Data and Results of Test Report TEi-TS-P00700.
- SP Swedish National Testing and Research Institute, Report No. P703499, dated 2007-08-06, Environmental tests of bilge alarm.

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

This certificate replaces previous EC Type-Examination Certificate No. MED-B-8323.

APPENDIX

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