DNV·GL

Certificate No:
TAP000009X

TYPE APPROVAL CERTIFICATE

This is to certify:

That the 5 ppm Bilge Water Separator

with type designation(s)
PureBilge 2505, PureBilge 5005

Issued to
Alfa Laval Tumba AB
TUMBA, Sweden

is found to comply with
Det Norske Veritas' Type Approval Programme 771.60 5 ppm Bilge Water Separators

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Type:	**Capacity:**
PureBilge 2505	**2.5 m3/h**
PureBilge 5005	**5.0 m3/h**

This Certificate is valid until **2021-03-10**.

Issued at **Høvik** on **2016-03-11**

for **DNV GL**

DNV GL local station: **Stockholm**

Approval Engineer: **Pål Evang Nundal**

Dag Sæle-Nilsen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-012457-2**
Certificate No: **TAP000009X**

Product description

The 5 ppm Bilge Water Separation System Type 'PureBilge' is intended for installation onboard ships or other marine units to reduce the oil content in bilge water to less than 5 ppm.
The equipment is designed and tested to meet the requirements of the IMO Resolution MEPC.107(49) and DNV Standard for certification 2.9 Type Approval Program 771.60.

Application/Limitation

PureBilge 2505 Maximum throughput 2.5 m3/h
PureBilge 5005 Maximum throughput 5.0 m3/h

To fulfill the requirement the system will have to be fitted with specified Alfa Laval Polishing Filter and Filter elements and an Oil content meter for 5 ppm of approved type.

Type Approval documentation

Tests carried out

Alfa Laval Reports, ref. No. SK-09-0535, dated 2009-12-01, PureBilge system – description and test results.
SGS – Institut Fresenius, Test Protocol for Type Approval of 15 ppm Bilge Separator acc. to MEPC.107(49), dated December 9th, 2009.
PAConsult, Test Report No. 09-2593, dated 30th November 2009, Environmental Testing of Control Cabinet – EPC60 Bilge
Alfa Laval Tumba AB, IMO Prototype Tests, Reports dated 2004-09-27 and 2004-11-01, referring IMO Res. MEPC.107(49).

Marking of product

For traceability to this type approval, each unit is to be marked with:
- Manufacturers name or trade mark
- Type designation
- Serial No.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Standard for certification No. 1.2 Type Approval Item 4.