DNV·GL

Certificate No:
TAP00000MX

TYPE APPROVAL CERTIFICATE

This is to certify:

That the 5 ppm Bilge Water Separator

with type designation(s)
SKIT S DEB 0.1, 0.25, 0.5, 1.0, 1.5, 2.5, 5.0, 10.0, OWS-COM 0.1, 0.25, 0.5, 1.0, 2.5, 5.0, 10.0

Issued to
Veolia Water Technologies Deutschland GmbH
Bremen Bremen, Germany

is found to comply with
DNV GL class programme DNVGL-CP-0208 – Type approval – 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:**
SKIT S DEB 0.1, 0.25, 0.5, 1.0, 1.5, 2.5, 5.0, 10.0 **OWS-COM 0.1, 0.25, 0.5, 1.0, 2.5, 5.0, 10.0**	**0,1 - 10 m3/h**

This Certificate is valid until **2021-10-31**.

Issued at **Hamburg** on **2016-11-16**

for **DNV GL**

DNV GL local station: **Bremerhaven**

Approval Engineer: **Jens Rogge**

Olaf Drews
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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Product description

The SKIT S DEB / OWS-COM system consists of a coalescer and adsorber unit stage.
The oil content of the effluent is monitored by oil content meter of type OMD-2005 or OMD-24, maximum alarm set point 5 ppm.

Application/Limitation

The SKIT 5 DEB/ OWS COM bilgewater separator series are type approved for installation onboard ships and offshore units for oily bilge water separation, maximum content of 5ppm at discharge overboard. The equipment is designed and tested to meet the requirements of the IMO Resolution MEPC.107(49), and DNV Type approval program CP 208

Maximum throughput capacity; 0.1, 0.25, 0.5, 1.0, (1.5 for SKIT S DEB), 2.5, 5.0 and 10,0m^3/hr, respectively for each model.

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

Type Approval documentation

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Tests carried out

Tested in accordance with the requirements of the specification contained in Part 1 of the Annex to the revised Guidelines and Specification contained in IMO Resolution MEPC.107(49) and the DNV GL Class Programme CP 0208, 5 ppm bilge water separators.

- Institut Fresenius Certificate No. 107_943349_SDEB0.1 Dated 13/11-2007
- Institut Fresenius Certificate No. 107_943349_SDEB10 Dated 13/11-2007
- EMC Laboratory, Test Report No. 07-7077-1, dated 2007-06-11; Switch Box (SPS-ME06)
- Paconsult GmbH, Test Report No. 07-1701, dated 2007-09-14; Control Box (SPS-ME06)
- Test protocol 20161026 –Witnessed Functional test, flow control dated 2016-10-26
- Type Approval Certificates issued by SeeBG for SKIT S DEB system and for OWS-COM
- United States Cost Guard, Certificate of Approval 162.050/9056/1 dated 11 June 2014
- United States Cost Guard, Certificate of Approval 162.050/9056/2 dated 21 November 2014

Capacities

Capacity [m3/h]	IMO Certificate SKIT S DEB	IMO Certificate OWS-COM
0,1	330207	330344
0,25	330208	330345
0,5	330209	330346
1,0	330210	330347
1,5	330211	n/a
2,5	330212	330348
5,0	330213	330349
10,0	330214	330350

Oil content meter

Manufacturer: Deckma Hamburg GmbH

Type
OMD 2005
OMD 24

Marking of product

For traceability to this type approval, each unit to be marked with:

- identification of manufacturer
- equipment type designation or model identification
- maximum throughput and maximum influent pressure at which the separator is designed to operate
- serial number
- A sticker on the oil content meter with regard to 5 ppm alarm set point (applicable to non DNV GL type approved types)
- revision information, as applicable, for all firmware or software modules installed per hardware unit,
- necessary to identify the equipment, permanently marked somewhere on the final product.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

End of Certificate