Certificate no.:
TAP00002V4

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Oil/Water Separator

with type designation(s)
RT-3488-02-B

issued to
RØRTEK AS
Ålesund, **Norway**

is found to comply with
DNV rules for classification – Ships Pt.4 Ch.7 Pressure equipment

Application:

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

Max. working temp.:	**50 °C**
Working media:	**R717**
Design pressure:	**22 bar**

Issued at **Høvik** on **2024-09-18**
This Certificate is valid until **2029-09-17**.
DNV local unit: **Mid-North Norway CMC**

for **DNV**

Approval Engineer: **Tobias Berntsen**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Oil separator, designed according to DNV-RU-SHIP Pt.4 Ch.7.

Material: Shell: A333, Grade 6, ASTM
Dished ends: A234 Grade WPB, ASTM
Nozzles/pipes: A333, Grade 6, ASTM
Sockets: A105N, ASTM
Plug: A105N, ASTM

Type	Shell outer diameter	Shell thickness	Dished end outer diameter	Dished end thickness
RT-3488-02	273 mm	6.3 mm	273 mm	6.3 mm

Application/Limitation

Design data:

DNV Pressure equipment class:	I (DNV-RU-SHIP Pt. 4 Ch. 7 Sec. 1 Table 2 shall be followed)
Internal design pressure:	22 bar
Design temperature range:	-40/50 °C
Hydrostatic test pressure :	33 bar
Corrosions allowance:	1 mm
Weld joint factor shell/head:	1/1
Operating medium:	R717 (NH_3)

Materials for pressure retaining parts shall be delivered with material certificates according to DNV-RU-SHIP Pt.4 Ch.7 Sec.1 Table 5, for pressure equipment class I.

Manufacturing, workmanship and testing shall meet DNV-RU-SHIP Pt.4 Ch.7 Sec.7.

Type Approval documentation

Production testing and Certification

Production Testing and Certification for the actual intended application shall follow the latest applicable edition of the Rules (as mentioned on the front page of certificate).

Marking of product

Each oil separator shall be permanently and legibly marked on the pressure part or on a nameplate permanently attached to a principal pressure part to show its identity and origin.
The marking of the oil separator shall show at least the following particulars:

- manufacturer's name and address
- type designation and serial number
- year of manufacture
- maximum allowable working pressure
- maximum and minimum allowable working temperature
- hydrostatic test pressure

Periodical assessment

This certificate is only valid if required periodical assessments are carried out with satisfactory results.

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNV-CP-0338.

To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com