Certificate no.:
TAS000042V

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Offshore Tank Container

with type designation(s)
1500L vertical offshore tank - STA007972

issued to

Suretank Ltd

Dunleer, Co. Louth, Ireland

is found to comply with

DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, March 2023
ISO 10855-1:2018 Offshore containers and associated liftings sets – Part 1: Design, manufacture and marking of offshore containers
IMO/MSC Circular 860
International Maritime Dangerous Goods Code (IMDG)
European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)
Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)

Application:

UN Portable Offshore Tank, Tank Instruction T8

Max. gross mass (kg)	**4200**
Max. payload (kg)	**3000**
Tank cap. (L)	**1500**
MAWP/test pr. (bar)	**2.67 / 4.0**
Eq. shell thk (mm)	**5.0**

Issued at **Høvik** on **2023-12-11**

This Certificate is valid until **2028-12-10**.

for **DNV**

DNV local unit: **Oslo Pressure Equipment**

Approval Engineer: **Igor Antonijevic**

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

1500L Offshore tank containers.
Design approved according to IMDG Code, Edition 2022 Amdt. 41-22.

Max.external dimensions (LxWxH):	1450 x 1450 x 2520 mm
Tare mass[1)]:	1200 kg
Tank diameter (internal):	1244 mm
Tank material:	ASME SA240 (316/316L); EN10028-7, 1.4401/1.4404 (316/316L)
Pressure vessel code, tank:	ASME VIII Div.1
Nominal wall thickness, shell/ends:	4.0 / 5.0 mm

[1)] Tare mass, including fixed fittings/equipment, is to be confirmed by weighing. The sum of the tare mass and the payload shall never exceed the Max. Gross Mass as it is stated on the front page of this certificate.

Application/Limitation

IMDG/ADR/RID design approval number	N-NV/658/10/23
Setting of relief valve:	3.3 bar
Metallurgical design temperature for tank:	-40°C to +70°C
Design temperature for framework:	-20°C
Design vacuum:	-0.42 bar
Max. sling angle from vertical:	45°
Min. shackle bolt diameter:	21.6 mm
Enhancement factor:	2.151

Products accepted for carriage:

- Liquids with the following Tank Instructions in the IMDG and ADR/RID code: T1, T2, T3, T4, T6, T7 and T8.

The goods accepted for carriage should have no adverse effect on any part of the tank and meet applicable tank special provision.
DNV surveyor has to witness important production and test events and issue Form no. 71.08a " Certificate for Offshore Container" and Form no. CTT101 “Tank Container Certificate” for each container.
Production strength tests (All point lifting) to be carried out according to DNV 2.7-1 and after agreement with the DNV surveyor.
The certificates are only valid when the containers are fitted with a lifting set certified according to DNV 2.7-1.
Each tank should be subjected to a hydraulic pressure test to the specified test pressure.

Type Approval documentation

Tests carried out

Prototype strength tested according to the requirements.

Marking of product

Each container to be marked with:

- Data plates for UN tanks according to IMDG Code Ch. 6.7.2.20. Design approval number according to Application/Limitation above
- Data plates according to DNV requirements
- External marking according to IMDG / DNV / requirements
- DNV decal for offshore containers
- NV mark to be hard stamped on frame
- Manufacturer’s Serial Number to be welded on frame

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNV-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonized with other surveys and audits carried out. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE