

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Offshore Tank Container**with type designation(s)
2400L to 5500L Horizontal Offshore Tank Containers

Issued to

Suretank Ltd
Dunleer, Co. Louth, Ireland

is found to comply with

DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, August 2017
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)
CAP 437 Standards for offshore helicopter landing areas**Application :****Portable Tank Instruction: T7**

Type	Max. gross mass (kg)	Max. payload (kg)	Tank cap. (L)	MAWP/test pr. (bar)	Eq. shell thk (mm)
600 gal. Helifuel Tank – ST-1020	4500	2650	2860	2.67/4.0	5.0
500 gal. Chemical Tank - ST-1960	6500	4700	2400	2.67/4.0	5.0
500 gal. Chemical Tank - ST-1970	6500	4700	2400	2.67/4.0	5.0
1000 gal. Helifuel Tank - ST-2330	6500	4200	4564	2.67/4.0	5.0
4800L Offshore Tank - ST-3900	10430	8330	4564	2.67/4.0	5.0
3100L Offshore Tank - ST-3960	8000	6000	2730	2.67/4.0	5.0
4000L Offshore Tank - ST-4300	8000	6000	4000	2.67/4.0	5.0
5500L Offshore Tank - ST-4340	10000	7340	5500	2.67/4.0	5.17
4800L Helifuel Tank - STA004505	6500	4200	4800	2.67/4.0	5.17

Issued at **Høvik** on **2019-09-17**This Certificate is valid until **2024-09-16**.for **DNV GL**DNV GL local station: **Manchester**Approval Engineer: **Igor Antonijevic****Inger-Helene Hals**
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.



Job Id: **262.1-005965-6**
Certificate No: **TAS000027H**

Manufactured by

DNV GL id number 1214516

Product description

This Type Approval Certificate replaces expired S-7663.

Type	Max.external dimensions (LxWxH) (mm)	Tare mass (kg)	Pressure vessel code, tank	Tank diameter (Internal)	Tank material
600 gal. Helifuel Tank - ST-1020	2150x1900x2281	1850	ASME VIII Div.1	1550 mm	A240 316 ¹⁾
500 gal. Chemical Tank - ST-1960	2150x1900x2085	1800	ASME VIII Div.1	1400 mm	A240 316 ¹⁾
500 gal. Chemical Tank - ST-1970	2150x1900x2085	1800	ASME VIII Div.1	1400 mm	A240 316 ¹⁾
1000 gal. Helifuel Tank - ST-2330	2600x2000x2556	2300	ASME VIII Div.1	1775 mm	A240 316 ¹⁾
4800L Offshore Tank - ST-3900	2750x1850x2337	2100	ASME VIII Div.1	1600 mm	EN 10028-7 1.4401
3100L Offshore Tank - ST-3960	2150x1900x2331	2000	ASME VIII Div.1	1550 mm	EN 10028-7 1.4401
4000L Offshore Tank - ST-4300	2200x2000x2506	2000	ASME VIII Div.1	1775 mm	A240 316 ¹⁾
5500L Offshore Tank - ST-4340	2990x2440x2457	2660	ASME VIII Div.1	1775 mm	EN 10028-7 1.4401
4800L Helifuel Tank - STA004505	2600x2000x2585	2300	ASME VIII Div.1	1775 mm	EN 10028-7 1.4401/1.4404; ASME SA240

¹⁾Minimum tensile strength Rm for the specified material 550 N/mm² to ADR 6.7.2.3.3. The minimum wall thickness have been based on a higher value, Rm=600 N/mm²

Application/Limitation

IMDG/ADR/RID approval ref. no. : N-NV/409/07/08
DOT design approval number : SI-0300-19-USA²⁾

²⁾issued by Silver Cims and applicable to 4800L Helifuel Tank STA004505.

Design temperature for frame: -20°C
Lifting slings Max angle of legs from vertical: 45°
Setting of relief valve: 3.3 bar

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Type	Metallurgical design temperature for tank	Min. shackle bolt diameter	Enhancement factor
600 gal. Helifuel Tank - ST-1020	-40°C to +85 °C	21.6	2.067
500 gal. Chemical Tank - ST-1960	-40°C to +55 °C	24.9	1.733
500 gal. Chemical Tank - ST-1970	-40°C to +120 °C	24.9	1.733
1000 gal. Helifuel Tank - ST-2330	-40°C to +50 °C	24.9	1.733
4800L Offshore Tank - ST-3900	-40 °C to +55 °C	27.7	1.482
3100L Offshore Tank - ST-3960	-40 °C to +55 °C	24.9	1.633
4000L Offshore Tank - ST-4300	-40 °C to +55 °C	24.9	1.633
5500L Offshore Tank - ST-4340	-40 °C to +55 °C	27.7	1.501
4800L Helifuel Tank - STA004505	-40 °C to +70 °C	24.7	1.733

Products accepted for carriage:

- Liquids with the following Tank Instructions in the IMDG code: T1, T2, T3, T4, T6, T7

The goods accepted for carriage should have no adverse effect on any part of the tank and meet applicable tank special provision.

DNV GL 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 GL 2.7-1 and after agreement with the DNV GL surveyor.

The certificates are only valid when the containers are fitted with a lifting set certified according to DNV GL 2.7-1.

Each tank should be subjected to a hydraulic pressure test to the specified test pressure.

Type Approval documentation



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Tests carried out

Prototypes 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 GL / ISO requirements
- External marking according to IMDG / DNV GL / ISO requirements
- DNV GL decal for offshore containers
- ∇ 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 DNVGL-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out

END OF CERTIFICATE