Certificate no.:
TAS00004DU

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Offshore Tank Container

with type designation(s)
Diesel storage tank - T24901, Waist oil storage tank - T26501

issued to
APPLIED ENGINEERING PTE LTD
SINGAPORE, **Singapore**

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

Application:

UN Portable Offshore Tank, Tank Instruction T2

Type	Max. gross mass (kg)	Max. payload (kg)	Tank cap. (L)	MAWP/test pr. (bar)	Eq. shell thk (mm)
Diesel storage tank - T24901	24782	13046	14700	1/1.5	7.0
Waist oil storage tank - T26501	24894	13391	14700	1/1.5	7.1

Issued at **Høvik** on **2024-10-09**
This Certificate is valid until **2029-10-08**.
DNV local unit: **Singapore VMC Verification**

for **DNV**

Approval Engineer: **Nina Thorvaldsen Moberg**

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

Designs approved according to IMDG Code, Edition 2022 Amdt. 41-22, chapter 6.7.2.

Type designation	**T24901**	**T26501**
Max.external dimensions [mm]:	3000 x 3000 x 6192	3000 x 3000 x 6192
Tare mass [kg] [1)]:	11736	11503
Pressure vessel code, tank:	T2	T2
Tank diameter (Internal) [mm]:	14700	14700
Equivalent thickness, nominal, shell/ends [mm]:	7.0/6.0	7.1/6.0
Pressure vessel code, tank:	ASME VIII Div.1	ASME VIII Div.1
Tank material:	SA 240 – 316/316L	SA 240 – S32205

1) tare mass has to be confirmed by weighing. The sum of the tare mass and the payload shall never exceed the max. gross mass as listed above.

Application/Limitation

IMDG design approval number	: N-NV/667/04/24
ADR/RID design approval number	: NL-NV/667/04/24
Metallurgical design temperature for tank [°C]	: -40 to +80
Setting of relief valve [bar]:	: 1.25
Vacuum settings [bar]:	: -0.05
Design temperature for framework [°C]	: -20
Max angle of legs from vertical	: 30°
Enhancement factor T24901 / T26501	: 1.106 / 1.105
Min shackle bolt diameter	: 36.66

Products accepted for carriage:

- Liquids with the following Tank Instructions in the IMDG and ADR/RID code: T1 and T2

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.

Items of equipment shall be arranged, protected and marked per the requirements of IMDG code chapter 6.7.2.5. Verification shall be carried out by the surveyor.

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. This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE