Certificate No:
TAS000033K

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Offshore Container

with type designation(s)
Gas Bottle Rack

Issued to
VG Offshore Containers International (M) Sdn Bhd
Pelabuhan Klang, Selangor, **Malaysia**

is found to comply with
DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, January 2021
ISO 10855:2018 Offshore containers and associated liftings sets – Design, manufacture, testing, inspection and marking
IMO/MSC Circular 860

Application :

Max. gross mass (kg)	**2500**
Max. payload (kg)	**2000**
Max. sling leg angle	**30**
Enhancement factor	**2.880**

Issued at **Aberdeen** on **2021-06-28**
This Certificate is valid until **2026-06-27** .
DNV local unit: **Kuala Lumpur**

Approval Engineer: **Ross MacDonald**

for **DNV**

Elisabeth Legg
Principal Engineer

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

Thsi type approval replaces TAS00000VR.

Maximum external dimensions (LxWxH)	: 1170 x 1160 x 2080 mm
Tare mass*	: 500 kg

*) Tare mass is to be confirmed by weighing and it shall never exceed the maximum gross mass stated on the front page of this certificate.

Application/Limitation

Design temperature	: -20 °C
Minimum shackle pin diameter	: 19.0 mm

The DNV surveyor shall witness all important production and testing events and issue a certificate for each container. The certificate is only valid when the container is fitted with a DNVGL-ST-E271 certified lifting set.

This approval does not apply to the gas cylinders to be transported by this frame. If gas cylinders are to be installed and connected to manifolds, the unit as a whole (frame and payload) shall be approved and certified in accordance with IMDG Chapter 6.2 by an authorised certifying body.

The type approval will not become valid before VG Offshore Containers International (M) Sdn Bhd have built and tested a prototype based on the updated design in accordance with DNVGL-ST-E271.

Type Approval documentation

Tests carried out

Prototype load test to be carried out in accordance with DNVGL-ST-E271.

Marking of product

Each container to be marked in accordance with DNV / ISO requirements, including:

- Data and inspection plates
- DNV GL emblem for offshore containers
- VL mark to be hard stamped on the data plate
- Manufacturer’s Serial Number to be welded on frame.
- Removable beams to be marked with unit's serial number. Frame to be stencilled with words to the effect of "removable beams to be fitted during all lifting and transportation activities".

Periodical assessment

In order to maintain the validity of this type approval certificate, periodical assessments should be carried out in accordance with 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