Certificate No:
TAS00003VM

TYPE APPROVAL CERTIFICATE

This is to certify:

That the offshore container

with type designation(s)
Slimline - Primary Frame

Issued to
National Oilwell Varco UK Limited
Kintore, **United Kingdom**

is found to comply with
DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, January 2021 (Amended October 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)	**8500**
Max. payload (kg)	**0**
Max. sling leg angle	**30**
Enhancement factor	**1.600**

Issued at **Aberdeen** on **2023-04-21**
This Certificate is valid until **2028-04-20** .
DNV local unit: **Aberdeen**

Approval Engineer: **Elisabeth Legg**

for **DNV**

Brendan Ward
Senior 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.

Manufactured by

Manufacturer Name	Location	DNV Local Office	DNV CIM Number
		Ostrava	10061202
		Aberdeen	10117849
		Singapore	111232
		Aberdeen	10124766
		Aberdeen	10110171
		Ostrava	10047195
		Aberdeen	1246999
		Dubai	10121862
		Singapore	1098319
		Houston	10462843
		Rotterdam	10489253
		Aberdeen	10640108
		Kuala Lumpur	1003901

Responsibility

National Oilwell Varco UK Ltd. takes full responsibility that both the design and production are in compliance with the Rules, Standards and / or Regulations listed on page 1 of this type approval certificate.

Product description

Type	Maximum external dimensions (LxWxH)	Tare mass*
Slimline – primary frame	3600 x 1350 x 3123 mm (with Airco cover) 3600 x 1350 x 2598 mm (without Airco cover)	8500 kg

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

Application/Limitation

Type	Design temperature	Minimum shackle pin diameter
Slimline – primary frame	-20 °C / -40 °C **	25.0 mm

**) This approval covers two sets of drawings for the same design with different design temperatures -20°C and -40°C. Special attention should be paid to ensure that all material certificates, weld procedures and welder qualifications are suitable for the selected design temperature.

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 DNV-ST-E271 certified lifting set.

Type Approval documentation

Tests carried out

This type approval covers design only. i.e. the type approval is not valid for the final product, but may be used as basis for obtaining a product certificate.

This approval is only valid upon the successful completion of the specified 30° tilt test in the presence of a DNV surveyor. The tilt test shall be conducted with the container in the worst loaded condition (i.e. highest centre of gravity).

Marking of product

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

- Data and inspection plates
- DNV emblem for offshore containers
- NV mark to be hard stamped on the data plate
- Manufacturer’s Serial Number to be welded on frame.
- When applicable, the removable primary items shall be marked with frame’s serial number. The frame shall be stencilled with words to the effect of "removable items shall be fitted during all lifting and transportation activities”.

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 harmonised 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