



Certificate No:
TAS00003S3

TYPE APPROVAL CERTIFICATE

This is to certify:

That the offshore container

with type designation(s)
Frame for Unisplit C DD Winch

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)	8000
Max. payload (kg)	4500
Max. sling leg angle	45
Enhancement factor	1.633

Issued at **Aberdeen** on **2023-01-16**

This Certificate is valid until **2028-01-15** .

DNV local unit: **Aberdeen**

for **DNV**

Approval Engineer: **Brendan Ward**

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.



Form code: TA 281

Revision: 2022-12

www.dnv.com

Page 1 of 3



Job Id: **262.1-039117-1**
Certificate No: **TAS00003S3**

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*
UNISPLIT C DD STEEL - PRIMARY FRAME	2350 x 1500 x 2618 mm	3500 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
UNISPLIT C DD STEEL - PRIMARY FRAME	-20 °C	24.7 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 DNV-ST-E271 certified lifting set.

The connecting items associated with the removable primary items shall be checked for damage prior to transportation and lifting activities. Should any signs of significant wear or damage be evident, these items shall be replaced with equivalent fasteners. The connecting items shall be permanently secured to the structure by means of a chain or equivalent. This information shall be transferred to the DNV offshore container certificate.

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.

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.
- 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".
- The lifting eyes on the top of the primary frame which are not for offshore lifting shall be clearly marked with words to this effect.

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.

END OF CERTIFICATE