

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Offshore Container**

with type designation(s)

10ft Offshore Container - SUN10F04**12ft Offshore Container - SUN12F04****14ft Offshore Container - SUN14F04****16ft Offshore Container - SUN16F04****20ft Offshore Container - SUN20F04**

Issued to

Swire Oilfield Services AS
TANANGER, Norway

is found to comply with

DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, August 2017**ISO 10855:2018 Offshore containers and associated liftings sets – Design, manufacture, testing, inspection and marking****IMO/MSC Circular 860****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Type	Max. gross mass (kg)	Max. payload (kg)	Max. sling leg angle	Enhancement factor
10ft Offshore Container - SUN10F04	10000	7727	45°	1.501
12ft Offshore Container - SUN12F04	12000	9205	45°	1.413
14ft Offshore Container - SUN14F04	14000	10977	45°	1.324
16ft Offshore Container - SUN16F04	14000	10653	45°	1.324
20ft Offshore Container - SUN20F04	14000	9822	45°	1.324

Issued at **Aberdeen** on **2018-08-23**This Certificate is valid until **2023-08-22**.for **DNV GL**DNV GL local station: **Stavanger**Approval Engineer: **Andrzej Lange**

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.



Job Id: **262.1-013423-5**
Certificate No: **TAS00001MH**

Manufactured by

10ft Offshore Container – SUN10F04				*
12ft Offshore Container – SUN12F04		*	*	*
14ft Offshore Container – SUN14F04		*	*	*
16ft Offshore Container – SUN16F04		*	*	*
20ft Offshore Container – SUN20F04		*	*	*

*The type approval will not become valid for this place of manufacture before they have built and tested a prototype.

Swire Oilfield Services AS takes responsibility that both design and production are in compliance with the Rules, Standards and/or Regulations listed on page 1 of this Type Approval Certificate.

Product description

This Type Approval Certificate replaces S-7741.

Type	Maximum external dimensions (LxWxH)	Tare mass**
10ft Offshore Container – SUN10F04	2991 x 2438 x 2690 mm	2273 kg
12ft Offshore Container – SUN12F04	3658 x 2438 x 2717 mm	2795 kg
14ft Offshore Container – SUN14F04	4267 x 2438 x 2756 mm	3023 kg
16ft Offshore Container – SUN16F04	4880 x 2438 x 2781 mm	3347 kg
20ft Offshore Container – SUN20F04	6058 x 2438 x 2778 mm	4178 kg

**Tare mass is to be confirmed by weighing. The sum of the tare mass and the payload shall never exceed the maximum gross mass as it is stated on the front page of this certificate. The listed example has 2mm corrugated wall plate.

The designs may be delivered with corrugated wall of thickness 2mm, 3mm or 4mm, or 4mm flat plates. Tare and payload should be adjusted accordingly.

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Application/Limitation

Type	Minimum design temperature	Minimum shackle bolt diameter
10ft Offshore Container – SUN10F04	-20 °C	27.3 mm
12ft Offshore Container – SUN12F04	-20 °C	27.3 mm
14ft Offshore Container – SUN14F04	-20 °C	31.0 mm
16ft Offshore Container – SUN16F04	-20 °C	31.0 mm
20ft Offshore Container – SUN20F04	-20 °C	37.6 mm

This design is a container as defined in the International Convention for Safe Containers, CSC. The CSC requires containers used in international transport to be approved and certified in accordance with the requirements in the convention by an authorized certification body and marked with a CSC Safety Approval plate.

The DNV GL 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.

Type Approval documentation

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Tests carried out

Prototypes tested in accordance with DNVGL-ST-E271.

Marking of product

Each container to be marked in accordance with DNV GL / 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

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNVGL-CP-0338 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

END OF CERTIFICATE