

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Lifting Gear**

with type designation(s)

**Insert for Lift Adapter - 222297-15, used as part of assembly Lifting Adapter for Running Tool
- 223405-72 (SWL = 4 tonnes)**

Issued to

**OneSubsea GmbH
Celle, Germany**

is found to comply with

Standard for Certification No. 2.22 Lifting Appliances

Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed
by DNV GL.**

This Certificate is valid until **2019-09-17**.

Issued at **Høvik** on **2015-09-18**

DNV GL local station: **Magdeburg**

Approval Engineer: **Antonio Sendin Alvarez**

for **DNV GL**

**Aldo Matteucci
Head of Section**

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.

Product description

Lift Adapter Insert 222297-15, used as part of assembly Lifting Adapter for Running Tool 223405-72.

Safe working load (SWL): 4 Tons

Design Dynamic Factor (DAF): 1.7

Categorization: Loose gear for offshore & subsea crane

Minimum Design Temperature: -20°C

Vertical lift with a maximal out of plane load of 5°

It is the operator's duty to ensure that real dynamic coefficient does not exceed the design dynamic coefficient.

The maximum dynamic load shall include effects such as the weight of the hook/block, the weight of the wire rope and the crane's design dynamic factor.

Application/Limitation

1. Material for the Insert for Lift Adapter: 316 Ti
2. Material has to be delivered with 3.1 certificates, documenting mechanical properties and chemical composition in accordance with the type approval documentation, and shall comply with DNV's Standard for Certification No. 2.22 "Lifting Appliances" June 2013 Ch.2 Sec.1.
3. It is the responsibility of the Holder of the Certificate to ensure that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this Type Approval Certificate.

Type Approval documentation

Tests to be carried out

To obtain a CG3 certificate, each lifting adapter shall be tested according to DNV's Standard for Certification 2.22 "Lifting Appliances", June 2015, Ch.2 Sec.12.

Marking of product

Each lifting adapter shall be marked according to DNV's Standard for Certification No. 2.22 "Lifting Appliances" June 2015 Ch.2 Sec.12.

Periodical Assessment

For retention of the Type Approval, a DNV GL surveyor shall perform a survey every second year and before expire date of this certificate to verify that the conditions for the type approval are complied with.



Job Id: **262.1-019857-1**
Certificate No: **TAS000004J**

END OF CERTIFICATE