DNV·GL

Certificate No:
TAD0000112

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Accumulators

with type designation(s)
DACC-DA, 2nd Generation Pressure Balanced Accumulator P/N 100832293

Issued to
OneSubsea GmbH
Celle, Niedersachsen, Germany

is found to comply with
DNVGL-OS-E101 – Drilling facilities, Edition January 2018
DNVGL-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2018

Application :

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

Issued at **Houston** on **2019-07-18**
This Certificate is valid until **2024-07-17**.
DNV GL local station: **Magdeburg**

Approval Engineer: **Pari Natarajan**

for **DNV GL**

Christian Nilsen
Head of Section - CMC Approval

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.

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Reference Standards

- API 6A, 20th Edition October 2010, "Specification for Wellhead and Christmas Tree Equipment"
- ASME Boiler and Pressure Vessel Code, Section VIII, Div. 2, 2011 Edition.
- ISO 13628-6, 2003, Design and operation of subsea production system - Part 6, Subsea production control systems
- ISO 13628-7, 2005, Design and operation of subsea production system - Part 7, Completion/Workover riser systems
- NACE, MR0175-2003/ISO 15156, Standard Material Requirements, Sulphide Stress Cracking Resistant Metallic Materials for Oilfield Equipment

Product description

DACC-DA, 2nd Generation Pressure Balanced Accumulator P/N 100832293

Application/Limitation

Type Approval documentation

Tests carried out

FAT per 100957708 Rev. AK performed on 17th July 2019
FAT per 100976374 Rev. AE performed on 9th July 2019

Marking of product

For traceability the following marking is to be carried out on each product:

1. Serial No.
2. Marking as specified in API references.
3. Additional marking at the manufacturer's discretion

Certificate Retention Survey

For retention of the Type Approval, DNV GL's surveyor shall perform a survey every second year in accordance with DNV GL Type Approval Scheme DNVGL-CP-0338, October 2015 Edition.

Other conditions/ comments

- Procedures related to testing, welding, NDE, and other quality control requirements are to be reviewed/approved by DNV GL's local surveyor.
- Fabrication records are to be maintained in accordance with DNVGL-OS-E101 Ch.3 Sec. 3 [2].
- When DNV GL Product Certification is required, each product is to be surveyed during fabrication in accordance with the requirements for Category I equipment as defined in DNV GL's Offshore Standard DNVGL-OS-E101.
- This certificate is a renewal of TAC D-5474

End of Certificate