DNV·GL

Certificate No:
TAD0000171

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Accumulators

with type designation(s)
Accumulator, Stainless Steel Body, Piston Style, Model 030A30-1-9594, 1 Pint Capacity

Issued to
Tobul Accumulator Incorporated
Houston, TX, USA

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 :

See page 2.
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Houston** on **2019-12-02**
This Certificate is valid until **2024-12-01**.
DNV GL local station: **Certification & Inspection Services**

Approval Engineer: **M. Kevin Mandeville Jr.**

for **DNV GL**

Meindert van Mierlo
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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Job Id: **262.1-032603-1**
Certificate No: **TAD0000171**

The following codes/standards were used as a reference:

ASME *Boiler and Pressure Vessel Code*, Section VIII, Div. 1, 2019 Ed.
ASME B1.9, *Buttress Inch Screw Threads*, 1985 Ed.
ASME B1.1, *Unified Inch Screw Threads,* 1989 Ed.

Application/Limitation

Design Parameter	Value	Equivalent
Max. Allowable Internal Working Pressure	3,000 psi	206.8 bar
Max Internal Test Pressure	4,500 psi	310.2 bar
Min Design Temperature	-20°F	-29°C
Max Design Temperature	200°F	93°C
Corrosion Allowance	0in.	0mm
Service	Standard	

Type Approval documentation

Type Testing Carried Out

Type testing was carried out on the assembly with serial number 392898 on 2019-11-26.

Marking of product

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

1. Serial No.
2. Manufacturer's Name or trademark
3. Additional marking at the manufacturer's discretion

Periodical assessment

For retention of the Type Approval, DNV GL's surveyor shall perfrom a survey after two and three-and-a-half-years, in accordance with DNV GL's Type Approval Class Program, DNVGL-CP-0338.

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
- Examination of castings to be in accordance with the requirements of ASME 2017 BPVC Sec. VIII Div.1, Mandatory Appendix 7 & 8
- DNV GL Ref. Project No. A0761471/A0758330

END OF CERTIFICATE