



Certificate no.:
TAD00001MD

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Accumulators

with type designation(s)
Stainless Steel Piston Type Accumulator, Model No. 187A75-1200-A513, Rev. 04

issued to
Tobul Accumulator Incorporated
Houston, TX, USA

is found to comply with
DNV-OS-E101 – Drilling facilities, Edition July 2021
DNV statutory interpretations DNV-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2021

Application:

See Page 2

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

Issued at **Houston** on **2024-04-17**

This Certificate is valid until **2029-04-16**.

for **DNV**

DNV local unit: **Houston Offshore Services**

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

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 251

Revision: 2023-09

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Product description

Stainless Steel Piston Type Accumulator, 7500 PSI working pressure, 150 gal. capacity, Model No. 187A75-1200-A513

Application/Limitation

Design Parameter	Value	Equivalent
Max Allowable Working Pressure	7,500 psi	517.1 bar
Hydrostatic Test Pressure	11,250 psi	775.7 bar
Max Differential to External Pressure†	3814 psi	263 bar
Minimum Design Metal Temperature	-20°F	-29°C
Design Temperature	200°F	93°C
Corrosion Allowance	0 in	0 mm

†This design is not rated for external gauge pressure. This statement does not inhibit subsea use, however.

Type Approval documentation

Tests carried out

Test performed on units with Serial Numbers 404122-404125 on 2024-03-25.

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's surveyor shall perform a survey after two and three-and-a-half-years, in accordance with DNV's Type Approval Class Program, DNV-CP-0338.

Other conditions/comments

- Procedures related to testing, welding, NDE, and other quality control requirements are to be reviewed/approved by DNV's local surveyor.
- Examination of castings to be in accordance with the requirements of ASME 2023 BPVC Sec. VIII Div.1, Mandatory Appendix 7 & 8
- DNV Ref. Project No. A1497349

END OF CERTIFICATE