Certificate no.:
TAD00001T9

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Accumulators

with type designation(s)
Piston Style Accumulator, Stainless Steel Body, 110 Gallon Capacity, 7,500 PSI, Model 187A75-880-A253

issued to
Tobul Accumulator Incorporated
Houston, TX, USA

is found to comply with
DNV-OS-E101 – Drilling facilities, Edition July 2024

Application:

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

Issued at **Houston** on **2026-02-25**
This Certificate is valid until **2031-02-24**.
DNV local unit: **Certification & Inspection Services**

for **DNV**

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 USD 300 000.

The following codes and standards are used as a reference:

ASME *Boiler and Pressure Vessel Code*, Section VIII, Division 1, 2023 Edition
ASME B1.1, *Unified Inch Screw Threads (UN and UNR Thread Form)*, 2003 Edition
ASME B1.9, *Buttress Inch Screw Threads 7°/45° Form with 0.6 Pitch Basic Height of Thread Engagement*, 1985 Edition

Product description

Piston Type Accumulator, Model No. 187A75-880-A253 (110L Capacity)

Application/Limitation

Design Parameter		Equivalent
Maximum Allowable Working Pressure	7,500 psi	517.1 bar
Hydrostatic Test Pressure	11,250 psi	775.7 bar
Design Temperature	200°F	93°C
Minimum Design Metal Temperature	-40°F	-40°C
Corrosion Allowance	0 in	0 mm
ASME Code Stamp “U”	Yes	
Service	Standard	

Type Approval documentation

Tests carried out

Hydrostatic Testing carried out on Serial Number 408736 on 2025-02-19 per WI TR 286 001-003, Rev. 12.

Marking of product

For traceability to this Type Approval Certificate, the products are at a minimum to be marked as followed:

1. Manufacturer's Name and Trademark
2. Serial Number and/or National Board Number
3. Additional Marking at the Manufacturer's discretion
4. As required in ASME BPVC Section VIII, Div. 1, 2025 Ed.

Periodical assessment

For the retention of the Type Approval Certificate, DNV's Surveyor shall perform a survey after two and three-and-a-half years in accordance with DNV's Class Programme for Type Approval, DNV-CP-0338.

Other Comments and Conditions

1. Cylinder castings are to be processed per ASME BPVC Section VIII, Div. 1, Appendix 7 and 8 for the corresponding quality factors.
2. DNV Ref. Project. A1876751

Manufactured by:

Tobul Accumulator
7540 Fairview St.
Houston, TX

END OF CERTIFICATE