Certificate No:
TAS00003BV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifting set for Offshore containers and Portable Offshore Units

with type designation(s)
Magnum C/W Lifting Frame

Issued to
Worldwide Oilfield Machine, Inc.
Houston, TX, USA

is found to comply with
DNV GL standard DNVGL-ST-E273 – 2.7-3 Portable offshore units, April 2016 (Amended January 2020)

Application :

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

Issued at **Houston** on **2022-02-11**
This Certificate is valid until **2027-02-09**.
DNV local station: **Houston Offshore Services**

Approval Engineer: **Simon Ouyang**

for **DNV**

Mohsen Shavandi
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.

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.

Manufactured By

Worldwide Oilfield Pvt. Ltd.
DNV CIM No.: 1217208
Pune, India
Local DNV Office: Mumbai

Responsibility

Worldwide Oilfield Machine, Inc. takes full responsibility that both the design and production are in compliance with the Rules, Standards and / or Regulations listed on page 1.

Product description

Magnum C/W Lifting Frame
POU Type : DNVGL 2.7-3 Type B R30
Max. Tare : 336 kg 740 lbs

Application/Limitation

Min. Design Temperature	:	-20	°C	-4	°F
Max. Sling Angle w/ Vertical	:	30	°		
Shackle WLL	:	6.50	t	14,330	lbs
Min. Shackle Pin Diameter	:	25.4	mm	1.00	inch

The Magnum Lifting Frame with P/N: M7109B has been approved as Type B unit with an operational class R30 for transportation and lifting in air.

DNV surveyor to witness important production and test events and issue no. MOP 201, “Certificate for Portable Offshore Unit” for each unit.

Type Approval documentation

This approval is based on DVR-346.1-J-2189, Rev. 0 issued 2019-02-25.

Doc. No.	Rev.	Title

Materials Specifications

Component	Material	Min Yield Strength	Avg. Charpy Value
Hollow Sections	ASTM A500 Gr. B	315 MPa	32 J @ -10 °C for 6 < t ≤ 12 mm 32 J @ -20 °C for 12 < t ≤ 25 mm 32 J @ -40 °C for 25 < t ≤ 50 mm
Plates	ASTM A36	250 MPa	27 J @ -10 °C for 6 < t ≤ 12 mm 27 J @ -20 °C for 12 < t ≤ 25 mm 27 J @ -40 °C for 25 < t ≤ 50 mm

Tests carried out

Prototype for the Test Skid, EDP/LRP with part number: M7109B, serial number: IO00141622-0002 tested on 2022-02-08 according to Standard for Certification DNVGL-ST-E273, April 2016.

Prototype Load Test Reports reviewed and accepted by DNV Houston on 2022-02-10. Production testing to be carried out per DNVGL-ST-E273 Section 5.2.3.

Marking of product

Marking is to be carried out in accordance with DNVGL-ST-E273 Section 6.

Periodical assessment

Periodical assessment to be carried out at intervals not exceeding 12 months and after substantial repair or alteration according to Standard for Certification DNVGL-ST-E273, 2016 edition.

END OF CERTIFICATE