Certificate no.:
TAS000050Y

TYPE APPROVAL CERTIFICATE

This is to certify:

that the lifting set for offshore containers

with type designation(s)
wire rope lifting sets

issued to
CARGO LIFT S.A. DE C.V.
Ciudad de México, **Mexico**

is found to comply with
DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, March 2023 (Amended December 2024)
ISO 10855-2:2024 Offshore containers and associated lifting sets – Part 2: Design, manufacture and marking of lifting sets
IMO/MSC Circular 860
EN 13414-1 Wire rope slings

Application:

1, 2, 3, and 4 leg lifting sets, with forerunner where fitted, for lifting of offshore containers, with maximum gross mass 0 to 25000 kg,

Issued at **Aberdeen** on **2025-10-13**
This Certificate is valid until **2030-10-12**.
DNV local unit: **Mexico City**

for **DNV**

Approval Engineer: **Elisabeth Legg**

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.

Product description

This type approval covers wire rope lifting sets with wire rope diameter from 3/4" (19 mm) to 2-1/4" (57 mm) diameter, assembled with Flemish eyes by Cargo Lift S.A. de C.V. in accordance with DNV-ST-E271.

The wire rope lifting sets assembled by Cargo Lift S.A. de C.V. consist of components from the following sub suppliers:

Component	**Sub supplier** *(DNV to be informed and review new sub suppliers)*	**DNV type approval reference**
Master link and Quad assembly	Royal Van Beest Group B.V. William Hackett Lifting Products Limited	TAS00003F7 TAS00003J2 TAS00003J4
Wire rope [1)]	Deacero S.A.P.I. de C.V. Kiswire Neptune Sdn Bhd	N/A
Shackles [2)]	Royal Van Beest Group B.V.	TAS000033J
Ferrules [3)]	Muncy Industries Wirop Industrial Company Limited	N/A
Thimbles [4)]	Royal Van Beest Group B.V.	N/A

1) Wire ropes used in forerunner and bottom legs of lifting sets shall be 6-stranded and of type 6x19 or 6x36 and may be fibre cored or steel cored, with wire rope grades 1770 N/mm^2 or 1960 N/mm^2, in accordance with EN 12385-4, or equivalent.
2) Shackles are only considered part of the lifting set if captive (i.e. can not be removed after assembly of lifting set).
3) Ferrules/sleeves shall be in accordance with EN 13411-3, or equivalent.
4) Thimbles shall be in accordance with EN 13411-1, or equivalent.

Components shall be delivered with the following certificates:

- Master Links, Quad assemblies and Shackles: Certificates based on DNV type approval.
- Wire Ropes: To be supplied with traceable material certificates in accordance with EN 10204, inspection certificate, type 3.1.
- Thimbles and ferrules: To be supplied with a material certificate in accordance with EN 10204, test report, type 2.2.

Application/Limitation

For each delivered drum of wire rope, a test leg with one eye in each end shall be prepared and tested to breaking. A reference should be made to the wire drum test report in each sling set certificate where that wire is used.

All production testing should be carried out in accordance with Cargo Lift S.A. de C.V. procedures, to be agreed with the local DNV office.

The WLL to be referenced in certificates and marked on lifting sets shall be the maximum working load limit (WLL) of the lifting set, as per the definition in DNV-ST-E271.

Lifting sets shall be assembled in accordance with the strength requirements described in DNV-ST-E271 section 8. The angle of the sling legs from vertical should be taken into account when choosing slings. This angle should normally be 45°, but smaller angles may be used.

The manufacturer shall issue product certificates, in accordance with DNV-ST-E271 section 8.5, using Cargo Lift S.A. de C.V. certificate form No. CLFTAC-22 Rev.3. This certificate shall only be used for lifting sets certified in accordance with this type approval certificate.

Special lifting sets, assembled in accordance with the principles described in DNV-ST-E271 section 8 and appendix E, are also covered by this type approval. If unsymmetrical slings are to be assembled, the local DNV office shall be contacted to review each case, unless otherwise agreed in advance.

Note: The sling leg is not necessarily the weakest part of the lifting set. Master Link assemblies selected for lifting sets with legs at 45° may not be suitable for lifting sets with a smaller angle.

Type Approval documentation

Tests carried out
Prototype breaking load test of assembled wire rope sling leg.

Marking of product
For lifting sets manufactured in accordance with DNV-ST-E271: refer to section 8.

Periodical assessment
In order to maintain the validity of the type approval certificate, periodical assessments should be carried out by a DNV surveyor every **6 months** in accordance with DNV-SE-0284. Periodical assessments will, where possible, be harmonised with other surveys and audits conducted by DNV.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com