



Certificate no.:
TAS00004YW

TYPE APPROVAL CERTIFICATE

This is to certify:

that the lifting set component for offshore containers

with type designation(s)
SLR-756 Grade 8 shackles

issued to

Shandong Shenli Rigging Co., Ltd.
Shandong, China

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 13889 Forged steel shackles for general lifting purposes - Dee shackles and Bow shackles - Grade 6 - Safety
ISO 2415:2022 Forged shackles for general lifting purposes – Dee shackles and bow shackles

Application:

Grade 8 shackles for offshore container lifting sets

Issued at **Aberdeen** on **2025-08-22**

This Certificate is valid until **2030-08-21**.

for **DNV**

DNV local unit: **Shanghai**

Approval Engineer: **Elisabeth Legg**

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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 shackles for use in lifting sets for offshore containers certified in accordance with DNV-ST-E271.

Detailed product information and range of certified products covered by this type approval are listed in Appendix 1.

Application/Limitation

Minimum design temperature: -40°C

The shackles are approved for use in lifting sets that comply with DNV-ST-E271. The company performing the assembly of the lifting sets is considered to be the lifting set manufacturer.

The minimum shackle working load limit (WLL_s) shall be carried out in accordance with the requirements for lifting sets of offshore containers in DNV-ST-E271 section 8.

Tests to be carried out:

- Production testing: in accordance with DNV-ST-E271 and ISO 2415 in agreement with the local DNV office.
- Material to be impact tested by Charpy impact method in accordance with DNV-ST-E271 section 8.4.

Shandong Shenli Rigging Co., Ltd. shall issue product certificates in accordance with DNV-ST-E271 section 8.5 using the certificate form no. JL-SL-355/B. This certificate shall only be used for shackles certified in accordance with this type approval.

The required Working Load Limit (WLL) for a given container rating should be determined in accordance with DNV-ST-E271 Table 8-1. In no case shall an offshore container lifting set WLL be less than 7.0 tonnes.

Type Approval documentation

Tests carried out

Prototype testing shall be carried out in accordance with DNV-ST-E271 and ISO 2415.

Marking of product

Components shall be marked in accordance with DNV-ST-E271 section 8 and ISO 2415.

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out at all manufacturing locations every **6 months** in accordance with DNV-SE-0284. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

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>

Appendix 1

Product description and details

Type SLR-756

Item No.	Working Load Limit (WLL) [t]	Manufacturing Proof Force (MPF) [kN]	Minimum Breaking Force (BF) [kN]
SLR-756-1/2	3.3	64.7	162
SLR-756-5/8	5	98.1	246
SLR-756-3/4	7	138	344
SLR-756-7/8	9.5	187	466
SLR-756-1	12.5	246	613
SLR-756-1-1/8	15	295	736
SLR-756-1-1/4	18	354	883
SLR-756-1-3/8	21	412	1030
SLR-756-1-1/2	30	589	1471
SLR-756-1-3/4	40	785	1962
SLR-756-2	55	1079	2697
SLR-756-2-1/2	85	1668	4168