DNV·GL

Certificate No:
TAS00001WE
File No:
686.70
Job Id:
262.1-009670-4

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Lifting Gear

with type designation(s)
Slings made of steel wire rope intended for lifting purpose

Manufactured by
Shanghai Zhengshen Metal Products Co., Ltd.
Kunshan, China

is found to comply with
DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances

Application :

Slings made from Ø16 to Ø56 mm steel wire rope in qualities and executions as detailed under 'Product description'

This Certificate is valid until **2024-01-23**.

Issued at **Høvik** on **2019-01-24**

DNV GL local station: **Shanghai** for **DNV GL**

Approval Engineer: **Antonio Sendin Alvarez**

Aldo Matteucci
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 Examination Certificate and not to the approval of equipment/systems installed.
If any person suffers loss or damage which is proven to have been caused by any negligent act or omission of the Society, then the Society shall pay compensation to such person for his proven direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question. The maximum compensation shall never exceed USD 2 million.
In this provision the "Society" shall mean DNV GL AS as well as all its direct and indirect owners, affiliates, subsidiaries, directors, officers, employees, agents and any other person or entity acting on behalf of DNV GL AS.

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Product description

Manufacturer
Kunshan East Coast Ocean Project Co. Ltd
No. 68 Lisheng Road, Huaqiao Town, Kunshan
215332 Jiangsu Province
P.R. China

Slings with spliced end connection

1. Made in range Ø16 – Ø56 mm diameter of rope based upon table 17 or 18 of ref.1
2. Made in quality 1770 N/mm² for table 17 or 1670 N/mm² or 1770 N/mm² for table 18
3. Safe working load, SWL, is product of min. breaking load from tables and factor 0.15

Slings with ferrule secured end connection

1. Made in range Ø16 – Ø56 mm diameter of rope based upon table 17 or 18 of ref.1
2. Made in quality 1770 N/mm² for table 17 or 1670 N/mm² or 1770 N/mm² for table 18
3. Safe working load, SWL, is product of min. breaking load from tables and factor 0.18

Slings with socketed end connection

1. Made in range Ø16 – Ø56 mm diameter of rope based upon table 17 or 18 of ref.1
2. Made in quality 1770 N/mm² for table 17 or 1670 N/mm² or 1770 N/mm² for table 18
3. Safe working load, SWL, is product of min. breaking load from tables and factor 0.18

Ref. 1: Chinese standard GB/T 8918 – 1996
Note: Above SWL is based upon a safety factor of 5 against applied static load.
Reduced SWL for higher safety factor can be found by linear interpolation.

Application/Limitation

- Production and testing of each produced unit are to follow mentioned standards:
  - Spliced: GB/T 16271 – 2009
  - Ferrule secured: GB/T 6946-2008
  - Socketed: CB/T 4424-2015

  Referenced standards found in above standards are also understood followed.

- Proof load testing shall be not less than 2 times SWL and should not exceed 0.4 times minimum breaking load depending clients request and national requirements.

- Tolerance of length of multilegged sling assemblies are understood carried out in compliance with ISO 7531: 1987 if not otherwise agreed on a specific project.

Type Examination documentation

Tests carried out

Marking of product

Each sling is to be properly marked with manufacturer's identification number and capacity in conformance with quoted rules Section 6, D500 conforming to ILO's "Safety and Health in Dock Work", Item 20.6.

Periodical assessment

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For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.

This certificate replaces previous Type Examinaition Certificate No. S-8346

END OF CERTIFICATE