Certificate no.:
TAS00004GJ

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Lifting Gear

with type designation(s)
HSL 8 - HH000390

issued to
H. Henriksen AS
TØNSBERG, **Norway**

is found to comply with
DNV standard DNV-ST-0378 – Offshore and platform lifting appliances

Application:

Swivel joint for lifting hook.

Issued at **Høvik** on **2024-11-13**
This Certificate is valid until **2029-11-12**.
DNV local unit: **East & South Norway CMC**

Approval Engineer: **Axel Janson**

for **DNV**

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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 USD 300 000.

Product description

Swivel joint for Henriksen off-load lifting hooks.

Application/Limitation

Design Parameter	Value
Max. safe working load (SWL):	8 000 kg
Safety factor (against MBL):	6
Max. swivel angle:	±30°
Max. angle (alongship):	±10°

- Installation and onboard testing per MSC.81(70) part.2 are not included in this approval, and this shall be checked and accepted by attending surveyor for each installation.
- Support- and connections to the deck structure are not covered by this approval.
- All materials for load-carrying parts are to be delivered with 3.1 certificates (per EN 10204:2004), documenting mechanical properties and chemical composition in accordance with the Type Approval documentation.

Testing

The swivel was tested in accordance with relevant requirements, demonstrating a Safety-factor of 6 to the Ultimate Tensile Strength, based on the designated SWL.

Description	Report	Date	Witnessed by
Qualification Test - HH000390 HSL 8	D023974 ver.11	2024-08-22	Jørgen Strand Pedersen, DNV Sandefjord

Marking of product

For traceability, marking of each product shall be carried out in accordance with DNV-ST-0378 sec.14.

Certification

This Type Approval covers design(s) only, i.e. the Type Approval is not valid for the final product but may be used as basis for obtaining a product certificate.

If a DNV Product Certificate is required, the following shall apply:

- The manufacturing survey shall be followed-up by a DNV Surveyor
- Each swivel joint shall be tested according to DNV-ST-0378 Table 14-2. The testing shall be witnessed by a DNV surveyor.

Periodical assessment

For retention of the Type Approval, a DNV 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 DNV-CP-0338.

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

END OF CERTIFICATE