

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Stern Tube Seal**

with type designation(s)

18 17 aft & fwd, 20 19 aft & fwd, 22 21 aft & fwd, 24 23 aft & fwd

Issued to

Finnøy Gear & Propeller AS
HARØY, Norway

is found to comply with

DNV GL rules for classification – Ships**DNV GL rules for classification – High speed and light craft****Application :****The stern tube seals are approved for oil lubricated propeller shafts.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2020-05-28**This Certificate is valid until **2024-06-30**.for **DNV GL**DNV GL local station: **Kristiansund N**Approval Engineer: **Nadine Grace Mosteiro**
Halvorsen

Oddvar Deinboll
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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **262.1-013213-3**
Certificate No: **TAM0000161**

Product description

Seals for oil lubricated propeller shafts.

Shaft diameter 170 mm to 235 mm.

Application/Limitation

The Stern Tube seal is approved for mineral oils.

Environmentally Acceptable Lubricants (EALs) may only be applied according to manufacturer's list. Manufacturer's confirmation should be obtained separately.

Survey interval for the propeller shaft to be according to the Rules Pt.7 Ch.1 Sec.1 [1.6.6].

Type Approval documentation

Other conditions

Material test report for sealing rings to be presented to DNV GL per installation, ref. Pt.4 Ch.4 Sec.1 [3.1.1] Table 8 (applicable from January 2019).

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical assessment

For retention of the type approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years, to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

In cases where the type approved product is manufactured at other companies, the periodical assessment shall verify that the type approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore, periodical assessment shall be carried out randomly at these companies.

END OF CERTIFICATE