DNV·GL

Certificate No:
TAM000003X

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Stern Tube Seal

with type designation(s)
STERN KEEPER TYPE C

Issued to
Stern Keeper Co.,Ltd.
Fujisawa, Japan

is found to comply with
DNV GL rules for classification – Ships

Application :

The sealing boxes are approved for shafting arrangement with waterlubricated sterntube bearings. Survey interval for the propeller shaft: See page 2 of the certificate.

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2020-12-01**.

Issued at **Høvik** on **2015-12-02**

for **DNV GL**

DNV GL local station: **Yokohama**

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.

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Product description

Sterntube seal for waterlubricated propeller shafts.

Propeller shaft diameter from 60 mm to 699 mm.

Application/Limitation

Survey interval for the propeller shaft to be according to the Rules for Classification of Ships Pt.7, Ch.1, Sec.1.

Type Approval documentation
Tests carried out

Report: T-2-06 No. 0393C - Performance confirmation test in house for Stern Keeper C-Type.
Report: T-3-06 No. 0164C - Test plan

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 a survey every second year and before the expiry date of this certificate to verify that the conditions of the type approval are complied with.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval Certificate was issued. The main scope of the Periodical Assessment will normally include:

- Verification of the Type Approval applicant's production and quality system w.r.t. ensuring continued consistent production of the Type Approved products at the Type Approval applicant's own premises and at other companies that are given the responsibility for manufacturing of the products.
- Review of the Type Approval documentation and that this is still used as basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking.