Certificate No:
TAM00001A5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Flexible Mounts for Propulsion or Auxiliary Machinery

with type designation(s)
Flexible Engine Mount (ELMOLA) - 742848/S3/60 - Produkt-no. 18 105 00098, Flexible Engine Mount (ELMOLA) - 742848/S4/65 - Produkt-no. 18 105 00099, Flexible Engine Mount (ELMOLA) - 742848/S5/70 - Produkt-no. 18 105 00100

Issued to
Meinert GmbH
Hamburg, **Germany**

is found to comply with
DNV rules for classification – Ships
DNV class programme DNV-CP-0144 – Type approval – Flexible mounts used for propulsion or auxiliary machinery

Application :

Product approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2023-02-06**
This Certificate is valid until **2028-02-05**.
DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Andreas Wolf**

for **DNV**

Olaf Drews
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 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

Flexible Mounts for use as resilient mountings for propulsion and auxiliary machinery

Application/Limitation

The vibration mounts are to be used within the limitations specified in makers catalogues and data sheets for marine application.

Tests carried out

- Force way curve EMOLA 742 848, Sh60 (stiffness investigation), doc.no. 367338, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh60 (stiffness investigation), doc.no. 367339, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh60 (stiffness investigation), doc.no. 369873, dated 2021-12-09

- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 354201, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 357463, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 357464, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 369005, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 371593, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 371594, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 375127, dated 2021-12-09
- Force way curve EMOLA 742 848, Sh65 (stiffness investigation), doc.no. 375486, dated 2021-12-09

- Megi-Flexible Engine Mount (DOBULA) 777153 has long time proven in application on MAN Bus & Truck engines

Marking of product

Name of trademark (MEGI) and type number of identification.

Periodical assessment

For retention of the Type Approval, a DNV 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 regarding 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.

Other conditions

Engine vibration calculations to be submitted for approval as requested in the DNV Rules for Ships Pt.4, Ch.2, Sec. 1 [6 – Foundations for machinery]

DNV product certificate is not required.

END OF CERTIFICATE