

TYPE APPROVAL CERTIFICATE

Certificate no.: **TAM000013J** Revision No:

This is to certify:

that the Flexible Mounts for Propulsion or Auxiliary Machinery

with type designation(s) V11XX, VT41XX, VT42XX, VT44XX, VT46XX, VT4090

issued to

Vibratec Akustikprodukter AB Blidö, Stockholms Län, Sweden

is found to comply with

DNV rules for classification – Ships

DNV rules for classification – High speed and light craft

Application:

The flexible mounts are approved for use for suspension of diesel engines.

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

Issued at Hamburg on 2024-05-16

This Certificate is valid until 2029-06-30.

DNV local unit: Sweden CMC

Approval Engineer: Wolfgang Schütz

for **DNV**



Digitally Signed By: Hannevik, Svein-Olav Location: DNV Høvik, Norway

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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.



Job ID: **262.1-005578-6** Certificate no.: **TAM000013J**

Revision No: 2

Product description

All metal flexible vibration isolators

Application/Limitation

The flexible vibration isolators are approved for suspension of diesel engines, main or auxiliary.

Type Approval documentation

Drawing: DAAF505738 Spring element W46F

Quality instruction, V12L0505

Drawing: DAAE018034 Compression spring AF46

Data sheet for VT4211 – 4213, Data sheet for VT4103 – 4128 Data sheet for V1114, 1115, 1116, 1133, 1134, 1135, 1136

Data sheet for VT4425, VT4430

Data sheet for VT4412-VT4414, Data sheet for VT4421-VT4424 Spring stiffness data given in e-mail from Vibratc dated 04-03-16

Drawing: 0711081DJ Sammanställning Isolator VT41XX (dated 2007-11-19)). Drawing: 98-0302: 1 rev. D Sammanstälning ny marinisolator typ VT421X

Tests carried out

Tests mentioned in type approval documentation

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 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.

Other conditions

DNV product certificate is not required.

END OF CERTIFCATE

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