TYPE APPROVAL CERTIFICATE

Certificate no.:
TAPMS000000V
Revision No:
2

This is to certify:

that the Planned Maintenance System for Machinery

with type designation(s)
Marad 5.x

issued to
Marad B.V.
Urk, Flevoland, **Netherlands**

is found to comply with

DNV class programme DNV-CP-0206 – Type approval – Machinery planned maintenance system (MPMS)
DNV rules for classification – Ships

Application:

The Planned Maintenance System is approved for use onboard DNV classed vessels and Mobile Offshore Units with the survey arrangement Machinery PMS.

Issued at **Høvik** on **2025-10-17**

This Certificate is valid until **2027-10-11**.
DNV local unit: **Machinery and MARPOL**

Approval Engineer: **Thomas Knödlseder**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signatures

Head of Section
Silje B. With

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
This software is a computer-based tool for systematic planning and documentation of maintenance.

Application/Limitation
Any version of this software sold and covered by this type approval must fulfil all functional requirements as specified in Class Programme DNV-CP-0206.
The system shall at least cover Class related machinery and testing of field instrument for periodically unmanned machinery space (Class notation E0, AUT, AUT-nh), when requested.
To obtain the Survey Arrangement Machinery PMS for a specific vessel all relevant requirements of the current set of Rules for Classification (Ships or Offshore) must be met.

Type Approval documentation
Software specifications
System architecture
Class specific documentation

Tests carried out
A system evaluation of Marad version 5.5.14.25863 has been carried out to verify compliance with the functional requirements as per Class Programme DNV-CP-0206.

Marking of product
The identification is stated in the programme display and on the printed reports.

Periodical assessment
For retention of the Type Approval Certificate (TAC) a retention survey should be carried out at least every second year.
One of the retention surveys will be at renewal of the TAC, i.e. before expiry date of the TAC.
Retention/renewal of the TAC will be based on an evaluation of the software with regards to changes within the software and/or DNV requirements.
During the validity of this TAC all relevant changes and launching of new versions shall be reported to DNV.

Other conditions
Any significant change in the software may render this certificate invalid.
The validity date relates to the TAC issued to the manufacturer of the software, and not the approval of the individual Planned Maintenance System installed on each vessel.
The validity status of the certificate can be found on https://approvalfinder.dnv.com/ .
The digitally signed electronic version of the TAC represents the original of the certificate, and any paper version is a copy.