



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **M-PMS-8730**

This is to certify that the
Planned Maintenance System for Machinery

with type designation(s)
MESPAS R5.x

Manufactured by
MESPAS AG
ZÜRICH, Switzerland

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, Rules for Classification of High Speed, Light Craft and Naval Surface Craft
and Offshore Codes
Standards for Certification No. 2.9 - Type Approval Programme No. 10-706.70-1, April 2009

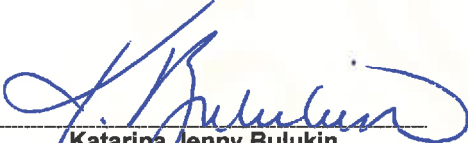
Application

The Planned Maintenance System is approved for use onboard DNV classed vessels with the Survey Arrangement based on Planned Maintenance System (Machinery PMS)

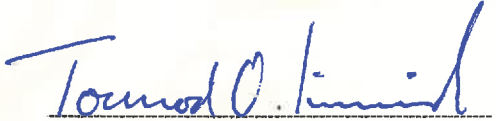
Høvik, 2011-07-01
for Det Norske Veritas AS



This Certificate is valid until
2015-06-30


Katarina Jenny Bulukin
Head of Section

DNV local office:
Oslo


Jan Bühring Andersen
Surveyor

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.
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Product description

This system is a web-based tool for systematic planning of maintenance and documentation of maintenance carried out.

Application/Limitation

The system shall at least cover Class related machinery and E0/ECO items (DNV notation for periodically unmanned machinery space) when requested. In order to obtain the Survey Arrangement Machinery PMS for a specific vessel, a satisfactory management approval and an initial survey onboard are required by the Society.

Type Approval documentation

User guide and complete software package.

Tests carried out

A System evaluation has been carried out to verify that the system complies with the requirements as per Type Approval Programme No 10-706.70-1 April 2009.

Marking of product

The identification is stated in the programme display and on the printouts.

Certificate Retention Survey

For retention of the Type Approval Certificate an application has to be made to the Society for renewal, no later than 3 months before the expiry date of the certificate.

Renewal of the Type Approval Certificate will be based on an evaluation of the system with regards to changes in software and/or DNV requirements.

If there has been any major change in the relevant rule requirements during the validity period of the Type Approval certificate a new system evaluation to the extent necessary and testing may be required. This also applies if there have been any changes to the software affecting class. The holder of the Type Approval certificate is obliged to inform the Society of any such changes. During the validity of this Type Approval Certificate all relevant changes and launching of new versions shall be reported to DNV.