



Certificate of Approval

This is to certify that

Kongsberg Maritime AS

Haakon VII gate 4, N-7005 Trondheim, Norway

Is approved by MAN Diesel & Turbo for manufacture and supply of:

Bearing Wear Monitoring System

For MAN Diesel & Turbo two-stroke diesel engines in accordance with the Terms and Conditions stated in appendix A.

Certificate no.: **2700-2011-209.0**

issued on **2011-06-20**

MAN Diesel & Turbo

A blue ink signature of Carsten H. Andersen, written in a cursive style.

Carsten H. Andersen

A blue ink signature of Martin T. Olsson, written in a cursive style.

Martin T. Olsson



Appendix A:

Certificate no.: **2700-2011-209.0**

The approval as Vendor for MAN Diesel & Turbo two-stroke diesel engines is in accordance with the following:

- **Quality Control Ident no. 0743172-1 “General Procedure for First-Time Production Approval of Controlled Components”**
- **Quality Control Ident no. 0743665-8 “Bearing Wear Monitoring System. First-Time Approval”**
- **Quality Control Ident no. 0742550-2 “First Time Licensee Production Approval Procedure for Electronic Products”**
- **Specification Ident. no. 3091686-8.4 “Specification of Signal Processing and Operational Limits for Engine Coupled to a Fixed Pitch Propeller”, also including Damage Monitoring Algorithms**
- **LDD2 Report ref.: 244946, Data from Bearing Wear Monitoring supplier Kongsberg Maritime AS, dated 20th June 2011**

The approval is subject to the following **Terms and Conditions:**

1. Vendor shall at all times comply with the restrictions stipulated in the Co-operation Agreement, ref. 1300/BHN 2001-11-22 signed by Vendor on **2008-03-05**
2. The approval shall not relieve Vendor from its responsibility always to manufacture the Product in compliance with good manufacturing practice free from any defect and in strict compliance with the drawings and specifications received from MAN Diesel & Turbo or its licensees.
3. The Approval is given under the condition that MAN Diesel & Turbo has the right to assess periodically the Vendors continued ability to produce MAN Diesel & Turbo designed components / processes covered by this Certificate of Approval.
4. The approval does not imply that MAN Diesel & Turbo in any way guarantees the quality of the Product manufactured and supplied by Vendor.
5. The approval is valid for delivery to MAN Diesel & Turbo and its licensees only.
6. The approval may be withdrawn by MAN Diesel & Turbo at any time without notice if Vendor should fail to comply with the conditions of this Certificate of Approval, the duly signed Undertaking of Confidentiality and Quality Control 0743172-1 “General Procedure for First-Time Production Approval of Controlled Components” and may otherwise be withdrawn by MAN Diesel & Turbo at any time by giving six months written notice.