

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **59 509 - 08 HH**

Company **Tribomar GmbH**
Biedenkamp 3e
21509 Glinde, Germany

Product Description **Lube Oil Temperature Monitor**

Type **LOTM v1.1**

Environmental Category **C, EMC 2**

Technical Data /
Range of Application **Stand alone system for the supervision of crank bearing temperatures by measuring of caught oil in each cylinder section.**

Main functional tasks:

- monitoring for maximum values
- monitoring of deviation from mean value
- generating signals for the alarm and safety system (see remark)

Components:

- Mounted in RITTAL AE 1380.750:
 - Main PCB
 - Display PCB
 - Input/Output PCB
- Sensors (up to 12) DS18B20 *)

***) Environmental Category. D, 90°C**
Software versions: V1.1

This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.

Test Standard **GL Guidelines for the Performance of Type Approvals, Chapter 2 - Test Requirements for Electrical / Electronic Equipment and Systems (VI-7-2), Edition 2012**

Documents **Test report :paconsult 08-2086, MeßTechnikNord 05827.150.08**
Wiring diagrams, dated 01.08.2008
Flowcharts, dated 01.09.2008 according to requirement class 3

Remarks **Suitable as a crank case monitoring device only in connection with monitoring of main bearings. To be approved for each diesel engine type.**

Valid until **2018-09-23**

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File No. **I.A.12**

Hamburg, 2014-06-13

Type Approval Symbol

