

Appendix 1

Product Description and/or Approval Condition

Certificate No : HMB02586-OD003

Date of Issue : 11th December, 2018

A. Product Descriptions :

1. Power Supply

- 1) Operating Voltage : 24V DC \pm 25%
- 2) Current Consumption : Max. 2A
- 3) Fuse : 2A semi time lag

2. System of Protection : IP 54

3. Operating Temperature : 0 ~ 70°C

4. Ex-proof Type : II (2G) [Ex op is IIB T4 Gb] for VN115/87plus EX

5. Software Version : V5.2x

6. Intended for

1) VN 115/87plus

- Basic design, suitable for the monitoring of trunk piston diesel engines with in-line and V cylinder arrangements, running at medium and high speed.
- In case of a high oil mist generation, damage detection via a header pipe sampling system without localization of damage point.

2) VN 116/87plus

- Design suitable for the monitoring of trunk piston diesel engines with in-line and V cylinder arrangements, running at medium and high speed.
- In case of a high oil mist generation, damage detection via a header pipe sampling system. Indication of the engine side containing the source of oil mist (left or right side of engine)
- Pipe sampling system is the same as in the VN 115. If a localization of occurring bearing damage is requested, the replacement of a VN 115 against a VN 116 can be easily executed.

3) VN 215/87plus

- Design suitable for the monitoring of trunk piston and crosshead engines running at medium and low speed.
- Damage detection via an individual compartment suction pipe system, with indication of compartment containing the source of oil mist.

7. Documentation

1) Documents & Drawings

- Operation Manual (Part No. 11078, Version 2.4) dated 03/2017
- Operation Manual (Part No. 180081, Version 1.3) dated 06/2016
- Operation Manual (Part No. 180062, Version 2.5) Page 78~82 dated 08/2017
- Software Release Note FB_8.2_27_V02
- DC0500073_02, DC070056_02, DC070023_02, 21012340.sch, 210145, 210651 ~ 210653, 210955 (5/5), 210956 (4/12 ~ 12/12), 210957 (4/10 ~ 10/10), DC180164_02, 050073_02, DC270736_02, DC270440_02

2) Test Reports

- CETECOM Test Report No. 4-2018-1-2/06 dated 2006-05-18
- CETECOM Test Report No. 3-5679-1-1/08 dated 2008-10-01
- CETECOM Test Report No. 4-2912-01-01/07 dated 2008-01-28
- CETECOM Test Report No. 1-8082/14-01-03 dated 28.07.2014
- CETECOM Test Report No. 1-8082/14-01-06 dated 10.09.2014
- CETECOM Test Report No. 1-8082/14-01-04 dated 06.10.2014
- CETECOM Test Report No. 1-8082/14-01-05-A dated 24.09.2014
- CETECOM Test Report No. 1-8082/14-01-05-B dated 08.12.2014
- GSSO Test Report according to IACS UR M67 dated 2007, Feb.
- OMD Function Test (M67) dated 09.09.2015
- OMD Function Test (M67 Rev.2) dated 2017-01-10
- OMD Function Test (M67 Rev.2) dated 2017-08-07

3) Ex-proof Certificate

- IBExU14ATEX1153 dated 05.08.2014

B. Approval Condition :

1. This approval is granted on the basis of the test reports and the approved documentation.
2. The manufacturer should inform this Society of all kinds of revisions of the approved softwares. If the changes are recognized to affect functionality of the approved product, Type Test to confirm the reliability of the revised software may be performed in the presence of our surveyor.

- to be continued -

Appendix 2

Product Description and/or Approval Condition

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3. The product or packing is to be marked with manufacturer name and type designation on a suitable position.
4. Explosion-proof certification by a notified/recognized Certification Body is not covered by this certificate. Ratings and Special Condition for Safe Use in hazardous areas are to be obtained from the relevant valid Ex-Certificate.
5. Individual Product Certification is not required.

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