



MARINE DIVISION

Certificate number: 33853/A0 BV

File number: AP 4416

Product code: 3946H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

SCHALLER AUTOMATION GmbH & Co. KG

Blieskastel/Saar - GERMANY

for the type of product

OIL MIST DETECTION SYSTEMS

Oil Mist Detectors VN115/93, VN116/93, VN215/93

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.
IACS UR M67

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 05 Jul 2018

For BUREAU VERITAS,

At BV HAMBURG, on 05 Jul 2013,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Oil Mist Detection System

Type:

- VN215/93
- VN115/93 for medium and high speed engines
- VN116/93 for medium speed engines

2. DOCUMENTS AND DRAWINGS:

According to documents filed in AP 0310 & AP4416.

3. TEST REPORTS:

- 3.1 - Test report filed in AP 0310.
- 3.2 - Additional GSSO test report for UR M67 dated 22nd February 2007.

4. APPLICATION / LIMITATION:

- 4.1 - Approval also valid for ships to be granted with the notations: AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.
- 4.2 - The fitting aboard to be the same as used for the test.
- 4.3 - For VN115/93 agreed where crankcase length does not exceed 4 meters.
- 4.4 - For VN116/93 agreed where crankcase length does not exceed 6 meters.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products are to be supplied by **SCHALLER AUTOMATION GmbH & Co. KG** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
- 5.3 - **SCHALLER AUTOMATION GmbH & Co. KG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

SCHALLER AUTOMATION GmbH & Co. KG
Industriering 14
D-66440 Blieskastel/Saar
GERMANY

6. MARKING OF PRODUCT:

- Maker's name.
- Date of manufacture and serial number.
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **SCHALLER AUTOMATION GmbH & Co. KG, Blieskastel/Saar - GERMANY** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

*** END OF CERTIFICATE ***