



CERTIFICATE NUMBER 20-2029709-PDA  
EFFECTIVE DATE 5 October 2020  
EXPIRATION DATE 4 October 2025  
ABS TECHNICAL OFFICE Singapore Engineering Services

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## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**SCHALLER AUTOMATION GMBH & CO. KG**

located at

**INDUSTRIERING 14, D-66440 BLIESKASTEL, GERMANY**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product Oil Mist Detector**

**Model VN 115/93, VN 116/93, VN 215/93**

This Product Design Assessment (PDA) Certificate remains valid until 04 October 2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

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Manoraaju, Engineer/ Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

## SCHALLER AUTOMATION GMBH & CO. KG

INDUSTRIERING 14

D-66440 BLIESKASTEL

Germany

Telephone: 49- (0) 6842-508-218

Fax: 49- (0) 6842-508-260

Email: Jochen.bock@schaller.de

Web: www.schaller.de

**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Oil Mist Detector

**Model:** VN 115/93, VN 116/93, VN 215/93

**Intended Service:**

Monitoring of oil mist concentration in crankcases of diesel engines and alerting of high concentration.

### Description:

Header pipe sampling systems.

Indication of high oil mist concentration: VN 115 in entire crankcase, VN 116 in either crankcase section, VN 215 in each crankcase compartment.

### Rating:

Power Supply: 24 V DC +/- 25%, max. 3 A.

Degree of Protection: IP 54.

Max. Air Consumption: 1.0 m<sup>3</sup>/h at 0.5 bar.

### Service Restriction:

1) Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2) The vacuum in the engine crankcase, caused by the extraction of gases, is not to exceed 2.5 mbar.

### Comments:

1) Each particular application is to be specifically approved in conjunction with the relevant engine type and installation.

2) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

### Notes/Drawing/Documentation:

Document No. 150kHz-1000MHz\_VN93 EMC Test Report, Revision: -, Pages: 37

Document No. 1000MHz-6000MHz\_VN93 EMC Test Report Revision: -, Pages: 16

Document No. VN93 BV M67 Test Witness Report Revision: -, Pages: 4

Document No. DNV-GL Zert\_ISO9001\_2017\_e\_VN93 Revision: 01, Pages: 1

Document No. GSSO-Test-report\_VN93 Revision: 01, Pages: 28

Document No. Manual\_VN93\_Ver2-3 Revision: 01, Pages: 66

Document No. VN93Report\_CETECOM\_4-0178\_99\_2\_1 Revision: 01, Pages: 34

Document No. VN93Report\_CETECOM\_4-1055-1-1 Revision: 01, Pages: 37

Document No. VN93Report\_CETECOM\_7.5.1-022\_94 Revision: 01, Pages: 42

### Terms of Validity:

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This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

## STANDARDS

**SCHALLER AUTOMATION GMBH & CO. KG**

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**ABS Rules:**

ABS Rules for Conditions of Classification (2020) 1-1-4/7.7, 1-1-A3 and A4, which covers the following :  
2020 Rules for Building and Classing Marine Vessels: 4-2-1/7.2.2, 4-2-1-A3, 4-6-5/13.1, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.13, 4-8-3/1.17, 4-9-6/Table 1A, 4-9-6/Table 1B, 4-9-9/13, 4-9-9/15.7 (Table 1), 5C-8-A7/3.5, 5C-13-10/3.1.13

**National:**

NA

**International:**

IACS UR E10 (Rev. 7, Oct 2018)

M67 (Rev. 2, Feb 2015)

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA