

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000328
Revision No:
3

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the NOx analyser permanently placed on board and for use on board as per NOx Technical Code 2008

with type designation(s)
testo 350 MARITIME_V2

Issued to

Testo SE & Co. KGaA
Titisee-Neustadt, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2023/1667,

item No. MED/2.8. Marpol 73/78 as amended, Annex VI Regulation 13, IMO Res. MEPC.176(58) & 177(58) & 198(62)

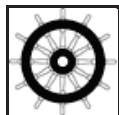
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-12-19**.

Issued at **Hamburg** on **2023-12-20**

DNV local unit:
Essen

Approval Engineer:
Claus Kurok



Notified Body
No.: **0098**



for **DNV GL SE**

Digitally Signed By: Mydlak-Röder, Christine
Location: DNV GL SE, Hamburg, Germany

Mydlak-Röder, Christine
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Product Name: testo 350 MARITIME_V2
Exhaust gas measuring device.

Application/Limitation

The exhaust gas analyser testo 350 MARITIME_V2 is found to be suitable as a component of a continuous monitoring system of NO_x-emissions to comply with the requirements of Revised MARPOL Annex VI and NTC 2008.

The equivalence of the testo 350 MARITIME_V2 as an on board NO_x analyser have been demonstrated under surveillance and to the satisfaction of DNV in accordance with ISO 8178:2006 Part 1, Annex D.

The testo 350 MARITIME_V2 shall be installed, calibrated and operated in compliance with the manufacturer's instructions and in accordance with the requirements and intervals as specified in Revised MARPOL Annex VI and NTC 2008.

Type Examination documentation

Report no.: 42-967-50/0608; "Instrument for measuring and determining emission on ship engines in accordance with MEPC.103(49) and Marpol Annex VI"

Report no.: 16-750-15/1211-A Version V01b; "Measuring and determination of exhaust gas components NO_x, CO₂, CO, O₂ and SO₂ with the testo 350 MARITIME_V2 on a two stroke marine diesel engine to verify the used measurement technology with reference methods as required by MARPOL Annex VI and the NO_x Technical Code 2008"

Tests carried out

- Revised MARPOL 73/78 Annex VI and NO_x Technical Code 2008
Appendix III: 1.6, 1.7, 1.8, 1.9, 1.10
Appendix IV: 5.5.1, 9
- ISO 8178:2006 Part 1, Annex D.

Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer's name or trade mark
- Type designation
- Mark of Conformity (see below)

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 10 in the Council Directive 2014/90/EU on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex II in the same directive is fully complied with.

Module D:	Conformity to type based on quality assurance of the production process
Module E:	Conformity to type based on product quality assurance
Module F:	Conformity to type based on product verification