



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2009/26/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-7247**

This is to certify that the
Lifeboat/rescue boat propulsion engine

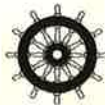
with type designation(s)
BUKH Marine Diesel SOLAS VGT 300-350-400-450-500

Manufacturer
BUKH A/S
Kruså, Denmark


is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.36-1.37 and Annex B, Module B in the Directive and as applicable SOLAS 74 Regulation III/4 & III/34 and LSA Code.

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

Høvik, 2011-11-03
for Det Norske Veritas AS



This Certificate is valid until
2016-11-03


fa **Marianne Strand Valderhaug**
Head of Department

Notified Body No.: **0575**

DNV local office:
Fredericia



Hans-Kristian Eriksen
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-7247
Item No.: A.1/1.36
Job Id.: 344.1-003298-1

Product description

Four stroke diesel engine with reduction gear

Engine model	Rating (kW)	Engine speed (RPM)	Gearbox
SOLAS VGT 300	224	3500	Jet Adaptor, ZF or TTM
SOLAS VGT 350	257	3500	Jet Adaptor, ZF or TTM
SOLAS VGT 400	294	3500	Jet Adaptor, ZF or TTM
SOLAS VGT 450	331	3500	Jet Adaptor, ZF or TTM
SOLAS VGT 500	373	3500	Jet Adaptor, ZF or TTM

Application/Limitation

The engines are approved for use in life/rescueboats

Type examination documentation

- Technical Specifications for engine models VGT 500
- Inclination switch arrangement , drawing No. 008E9707

Tests carried out

Test reports for engine model VGT (serial No. vgt 1511) carried out 2011-10-04 witnessed by DNV. Report dated 2011-10-05.

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.