

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

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

Issued to

BUKH A/S

Kruså, Denmark

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

Regulation **(EU) 2015/559,**

Annex A.1, item No. A.1/1.36 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation III/4 & X/3 and LSA Code

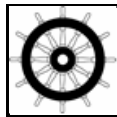
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-01-05**.

Issued at **Høvik** on **2017-01-06**

DNV GL local station:
Fredericia

Approval Engineer:
Tin Nguyen



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



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 is to be indelibly marked with name and address of manufacturer, type designation, and date of manufacture. In addition, the manufacturer shall affix the Mark of Conformity followed by the DNV GL Notified Body No. 0575 and the production year (4 digits).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity  according to 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 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.