

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00003FJ
Revision No:
1

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 Norway.

This is to certify:

That the Lifeboat/rescue boat propulsion engine

with type designation(s)
Bukh Beta SOLAS 28 EPA, 36 EPA, 48 EPA

Issued to
BUKH A/S
Kruså, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/1.36. SOLAS 74 as amended, Regulation III/4 & X/3 and LSA Code

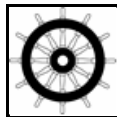
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-11-08**.

Issued at **Høvik** on **2018-11-09**

DNV GL local station:
Fredericia

Approval Engineer:
Tin Nguyen



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-001242-12**
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Product description

Four stroke diesel engine with reduction gear

Engine model	Rating (kW)	Engine speed (RPM)	Gearbox
28 EPA	20.6	3600	BW 7 or PRM 125 D or Baysan M60
36 EPA	26.5	3600	BW 7 or PRM 125 D or Baysan M60
48 EPA	35.3	2800	Newage PRM 150 or Baysan M60

Application/Limitation

The engines are approved for use in life/rescueboats

Type Examination documentation

- Technical Specifications for engine models 28 EPA, 36 EPA and 48 EPA
- 009YHCS1-R01 Hydraulic Starting Product Manual

Arrangement drawings:

- 009M8101 Diesel engine BBV1105 with BW 7 gear and keel cooling (28 EPA)
- 009M8301 Diesel engine BBV1505 with BW 7 gear and keel cooling (36 EPA)
- 009M8501 Diesel engine BBV2203 with PRM 150 gear and keel cooling (48 EPA)

- Operator's Maintenance Manual for 28 EPA, 36 EPA and 48 EPA.
- 009Y4326-R01 Operator's Maintenance Manual for BUKH+Beta Solas 28 EPA, 36 EPA

Tests carried out


Test reports for engine models 28 EPA, 36 EPA and 48 EPA carried out 2007-05-31 to 2007-06-01, witnessed by DNV. Reports dated 2007-06-01.

Test reports Bukh Diesel Engines EPA 28 - 36 (3 & 4 cylinders) carried out 2013-10-08, witnessed by DNV

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.



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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.

END OF CERTIFICATE