

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00003FK
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)
DV24RME, DV29RME, DV32RME, DV36RME, DV48RME

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

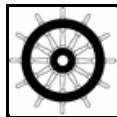
Further details of the equipment and conditions for certification are given overleaf.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-001841-7**
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Product description

Four stroke diesel engine with reduction gear

Cylinder bore : 85 mm
Piston stroke : 85 mm
No. of cylinders : 2 and 3

Engine model	Rating (kW)	Engine speed (RPM)	Gearbox
DV24RME	17.6	3600	PRM 125 D or ZF/ISA BW 7 or Baysan M60
DV29RME	21.3	3600	PRM 125 D or ZF/ISA BW 7 or Baysan M60
DV32RME	23.5	3600	PRM 125 D or ZF/ISA BW 7 or Baysan M60
DV36RME	26.5	3600	PRM 125 D or ZF/ISA BW 7 or Baysan M60
DV48RME	35.3	3600	PRM 150 D or ZF/ISA BW 7 or Baysan M60

Application/Limitation

The engine models are approved for use in life/rescueboats.

Type Examination documentation

The following drawings and documentation :

Drawing	Date/rev.
008E9172	000404 Longitudinal and cross section drawing of DV32
008E7964	850320 Longitudinal and cross section drawing of DV24
008E7474	830210 Cross section drawing of DV36 with reduction gear BW7
008E7474	830210 Longitudinal section drawing of DV36 with reduction gear BW7
009M4643	121120 Engine outline drawing DV24 RME with M60 gear
009M4710	121203 Engine outline drawing DV29 RME with M60 gear
009M4208	121203 Engine outline drawing DV32 RME with M60 gear
009M3655	121203 Engine outline drawing DV36 RME with M60 gear
009M4125	121204 Engine outline drawing DV48 RME with M60 gear
009E0209	850822 Fuel system DV24/29
009E0207	850822 Keel cooling diagram DV24/29
009E0208	850822 Lubricating oil system DV24/29
009E0210	850822 Fuel system DV36/48
009E0193	830202 Keel cooling diagram DV36/48
009E0194	830203 Lubricating oil system DV36/48
W4825-18	Technical data for Bukh engine type DV24 – DV29
W4327-16.	Technical data for Bukh engine type DV36 – DV48
W4120-18	Technical data for Bukh engine type DV24 – DV32

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Tests carried out


Tests carried out according to IMO Resolution A.689 (17) as amended by IMO Resolution MSC.81(70).
Tests documented by Test Report from Danish Maritime Authority J.Nr. Y9-6-1
dated 1988-12-23

Test documented by Test Report for engine model DV32RME, serial nos. 116064/116470 attended by
DNV. Test report signed and stamped by DNV 01-07-12
Test report from cold start test with DV48RME and DV24RME at minus 40 deg. C

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.

END OF CERTIFICATE