DNV·GL

Certificate No:
MEDB00002VM

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 Norway.

This is to certify:

That the Lifeboat/rescue boat propulsion engine

with type designation(s)
BUKH SeasAll R210 & S270 SOLAS marine engines

Issued to
BUKH A/S
Kruså, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
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 **2022-10-17**.

Issued at **Høvik** on **2017-10-18**

DNV GL local station:
Fredericia

Approval Engineer:
Tin Nguyen

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

Four stroke diesel engine with reduction gear
The engines are manufactured by Hyundai - SeasAll Co., Ltd. but SOLAS certified and equipped with accessories by Bukh A/S.

Engine model	**Bukh SeasAll R210**	**Bukh SeasAll S270**
Cylinder bore (mm)	85.4	84
Piston stroke (mm)	96	89
No. of cylinders:	4 in line	6 in V

Engine model	**Rating (kW)**	**Engine speed (RPM)**	**Gearbox**
Bukh SeasAll R210	154	3800	Jet Adaptor, ZF, TTM, PRM or Mercruiser Sterndrive
Bukh SeasAll S270	199	3800	Jet Adaptor, ZF, TTM, PRM or Mercruiser Sterndrive

Application/Limitation

The engine models are approved for SOLAS purposes.

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 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