

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, 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)

SABB Iveco N45 MNA M10, N67 MNA M15, N67 MNS M22, N67 MNT M28

Issued to

Frydenbø Industri AS
HAUGLANDSHELLA, Norway

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

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

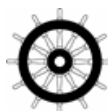
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2019-05-05**.

Issued at **Høvik** on **2016-07-20**

DNV GL local station:
Bergen

Approval Engineer:
Tin Nguyen



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Job Id: **344.1-001246-11**
Certificate No: **MEDB00001GB**

Product description

Four stroke diesel engine with reduction gear.

Cylinder bore : 102 mm
Piston stroke : 132 mm
No. of cylinders : 4 and 6

Engine model	Rating (kW)	Engine speed (RPM)	Gearbox
N45 MNA M10	74	2800	ZF45A, ZF45-1, ZF45 IV
N67 MNA M15	148	2800	ZF63, ZF63A, ZF63-1, ZF63 IV
N67 MNS M22	162	2800	ZF85, ZF85A, ZF85-1, ZF280-1, ZF280-1A, ZF280 IV
N67 MNT M28	206	2500/2800	ZF85, ZF85A, ZF85-1, ZF280-1, ZF280-1A, ZF280 IV

Application/Limitation

The engine models are approved for use in rescue boats and non self-rightening lifeboats.

Marking of product

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

Mark of Conformity

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