

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. 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)

N40 ENT M25, N60 ENT M37, N60 ENT M40, N67 ENT M45, N60 ENT M40/48, N67 ENT M56

Issued to

Frydenbø Sabb Motor AS
BERGEN, Norway

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

Annex A.1, item No. A.1/1.36-1.37 and Annex B, Module B in the Directive and as applicable SOLAS 74 Regulation III/4 & III/34 and LSA Code.

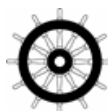
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2016-05-23**.

Issued at **Høvik** on **2016-02-01**

DNV GL local station:
Laksevåg

Approval Engineer:
Tin Nguyen



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Job Id: **344.1-001246-8**
Certificate No: **MEDB00000MK**

Product description

Four stroke diesel engine with reduction gear.

Cylinder bore : 102 mm
Piston stroke : 120 mm
No. of cylinders : 4 and 6

Engine model	Rating (kW)	Engine speed (RPM)	Gearbox
N40 ENT M25	184	2800	ZF 63, ZF 63A, ZF 63 IV
N60 ENT M37	272	2800	ZF 85A, ZF 85 IV, ZF 280 IV, ZF 280-1, ZF 280-1A
N60 ENT M40	294	3000	
N67 ENT M45	331	3000	ZF 280, ZF 280 IV, ZF 280-1, ZF 280 1A
N60 ENT M40/48	353	3000	
N67 ENT M56	412	3000	

Application/Limitation

The engine models are approved for use in rescue boats and non self-rightening lifeboats.
Engine heater to be applied at temperatures below 0° C.

Type Examination documentation

Tests carried out

Engine model N40 ENT M25 – Test carried out 2005-09-02, attended by DNV Bergen.
Engine model N60 ENT M37/40 – Test carried out 2005-06-22, attended by DNV Bergen

Marking of product