

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 K Series

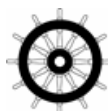
Issued to

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 **2019-12-09**.Issued at **Høvik** on **2016-07-20**DNV GL local station:
BergenApproval Engineer:
Tin NguyenNotified Body
No.: **0575**for **DNV GL AS**-----
Vidar Dolonen
Head of Notified Body

Job Id: **344.1-004472-3**
Certificate No: **MEDB0000192**

Product description

Four stroke diesel engine with reduction gear

Engine Model	Bore (mm)	Stroke (mm)	Cylinders	Rating (kW)	Engine speed (RPM)	Gearbox	Electric starter
D1005	76	73.6	3	18.5	3600	ZF12M	Denso 12V - 1.4kW
D1105	78	78.4	3	18.5	3000	ZF12M	Denso 12V - 1.4kW
D1105T	78	78.4	3	24.5	3000	ZF12M	Denso 12V - 1.4kW
D1305	78	88.0	3	21.7	3000	ZF12M	Denso 12V - 1.4kW
V1505	78	78.4	4	26.2	3000	ZF12M	Denso 12V - 1.4kW
V1505T	78	78.4	4	33.0	3000	ZF25M	Denso 12V - 1.4kW
D1503M	83	92.4	3	28.3	2800	ZF12M	Denso 12V - 1.4kW
D1703M	87	92.4	3	26.1	2800	ZF12M	Denso 12V - 1.4kW
D1803M	87	102.4	3	27.9	2700	ZF12M	Denso 12V - 2.0kW
V2203M	87	92.4	4	35.9	2800	ZF25M	Denso 12V - 1.4kW
V2403M	87	102.4	4	36.5	2700	ZF25M	Denso 12V - 2.0kW
V2403MT	87	102.4	4	44	2700	ZF25M	Denso 12V - 2.0kW

Application/Limitation

The engine models are approved for use in life/rescue boats

Marking of product

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

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC 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