

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)

L2.093LB, L3.139LB, L3S.139LB, L4.186LB, L4S.186LB, L4.186T LB

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

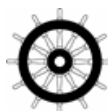
Further details of the equipment and conditions for certification are given overleaf.

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: **344.1-001810-12**
Certificate No: **MEDB0000191**

Product description

Four stroke diesel engine with reduction gear

Cylinder bore : 86 mm

Piston stroke : 80 mm

No. of cylinders : 2,3 and 4

Engine Model	Rating (kW)	Engine speed (RPM)	Gearbox (Hurth)
L2.093LB	14.2	3000	HBW 100
L3.139LB, L3S.139LB	21.6	3000	HBW 125
L4.186LB, L4S.186LB	29	3000	HBW 125
L4.186T LB	40.2	3000	HBW 250

Electric starter : Nippondenso (2 kW)

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

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