

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 the Kingdom of Norway.

This is to certify:

That the Lifeboat/rescue boat propulsion engine

with type designation(s)
STEYR 4 and 6 cylinder diesel engines

Issued to
STEYR MOTORS GmbH
Steyr-Gleink, Austria

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

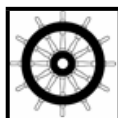
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2019-12-17**.

Issued at **Høvik** on **2017-08-02**

DNV GL local station:
Augsburg

Approval Engineer:
Tin Nguyen



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

Four stroke diesel engine

Cylinder bore : 85 mm

Piston stroke : 94 mm

No. of cylinders : 4 and 6 in line

Engine Model	Rating (kW)	Engine speed (RPM)	Gearbox
4 Cylinder Marine Engines			
MO54NA33	40	3300	ZF 25 – 25A, ZF 45C
MO84K32	55	3200	ZF 45-1/45 A/45 C, ZF 25-1/25/A
MO94K33	66	3300	ZF 45-1/45 A/45 C, ZF 25-1/25/A
MO114K33	81	3300	ZF 45-1/45 A/45 C
MO144M38	106	3800	ZF 45-1/45 A/45 C
MO144V38	106	3800	ZF 45-1/45 A/45 C
MO164M40	120	4000	ZF 45-1/45 A/45 C
MO174V40	125	4000	MerCruiser Bravo I – II – III, ZF 45 – 45A – 45C ZF 63 – 63A – 63IV, ZF63 C
SE114E33	81	3300	ZF25 - 45, ZF 63IV, VP SX, VP DP
SE144E38	106	3800	MerCruiser Bravo I – II – III ZF25 - 45, ZF 63IV, VP SX, VP DP
SE164E40	120	4000	MerCruiser Bravo I – II – III, ZF 45, ZF 63IV, VP SX, VP DP
SE174S40	125	4000	MerCruiser Bravo I – II – III, ZF45, ZF 63IV VP SX, VP DP
6 Cylinder Marine Engines			
MO126M28	90	2800	ZF 45-1/45 A/45 C
MO166M28	120	2800	ZF 45-1/45 A/45 C
MO196K35	140	3500	ZF 45-1/45 A/45 C
MO236K43	156	4300	ZF 45-1/45 A/45 C
MO236K42	170	4200	ZF 45-1/45 A/45 C
MO256K43	184	4300	ZF 63-1/63 A/63 C
MO256H45	184	4500	ZF 63-1/63 A/63 C
MO286H43	205	4300	ZF 63-1/63 A/63 C
MO306H43	215	4300	ZF 63-1/63 A/63 C
SE126E25	90	2500	ZF45 1, ZF45 IV,ZF 45A, ZF 45 C, ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A
SE156E26	110	2600	ZF45 1, ZF45 IV,ZF 45A, ZF 45 C,ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A
SE196E35	140	3500	ZF45 1, ZF45 IV,ZF 45A, ZF 45 C,ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A
SE236E40	170	4000	ZF45 IV, ZF 45 C,ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A
SE236S36	170	3600	ZF45 IV, ZF 45 C,ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A
SE266E40	195	4000	ZF45 IV, ZF 45 C,ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A

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Certificate No: **MEDB000034E**

SE266S36	195	3600	ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A
SE286E40	205	4100	ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A
SE306J38	215	3800	ZF 63, ZF63 IV, ZF 63 A, ZF63 C, ZF220, ZF220 A

Application/Limitation

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

Type Examination documentation

Tests carried out

Test report M14TCAM Type 144/164, Date : 21st through 23rd April 1999

Test report M16TCAM Type 236/246, Date : 21st through 23rd April 1999

Test report 1511 SOLAS Test of the Steyr Marine 2012 SE Series, Dated : December 22nd 2011

Test report 1751 DNV-OS-E406 Certification Test 4 cylinder Marine engine, Dated : December 7nd 2012

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 of Annex B in the same directive is fully complied with.