

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Diesel Engine**with type designation(s)
STEYR / BUKH + STEYR 4 and 6 cylinder diesel engines

Issued to

STEYR MOTORS GmbH
Steyr-Gleink, Austriais found to comply with
IMO Resolution MSC. 81(70) Testing of Lifesaving Appliances
DNVGL-ST-E406 Design of Free Fall Lifeboats**Application :****The approval is valid for propulsion of free fall lifeboats.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Rating See page 2**This Certificate is valid until **2022-01-09**.Issued at **Høvik** on **2017-01-10**DNV GL local station: **Essen CMC Southern Germany**for **DNV GL**Approval Engineer: **Geir Olav Moen**

Oddvar Deinboll
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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			
54NA33	40	3300	ZF 25 – 25A ZF 45C
84K32	55	3200	ZF 45-1/45 A/45 C ZF 25-1/25/A
94K33	66	3300	ZF 45-1/45 A/45 C ZF 25-1/25/A
114K33	81	3300	ZF 45-1/45 A/45 C
144M38	106	3800	ZF 45-1/45 A/45 C
144V38	106	3800	ZF 45-1/45 A/45 C
164M40	120	4000	ZF 45-1/45 A/45 C
174V40	125	4000	MerCruiser Bravo I – II – III, ZF 45 – 45A – 45C, ZF 63 – 63A – 63IV- ZG63 C
SE114E33	81	3300	ZF 45-1/45 A/45 C
SE144E38	106	3800	ZF 45-1/45 A/45 C
SE164E40	120	4000	ZF 45-1/45 A/45 C
SE174S40	125	4000	MerCruiser Bravo I – II – III, ZF 45 – 45A – 45C, ZF 63 – 63A – 63IV- ZG63 C
6 Cylinder Marine Engines			
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
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 http://www.bilkosmetikk.no/priser/ http://www.bilkosmetikk.no/priser/ http://www.bilkosmetikk.no/priser/ http://www.bilkosmetikk.no/priser/

Application/Limitation

The approval is valid for propulsion of free fall lifeboats according to DNV-ST-E406, Section 7.3.3, 7.5.4 and 11.1.11.



Job Id:
Certificate No: **TAM00000DY**

Marking of product

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

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval Certificate was issued.

In cases where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore Periodical Assessment shall be carried out randomly at these companies.

END OF CERTIFICATE