

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000RM

This is to certify:

That the Diesel Engine

with type designation(s)
D16

Issued to

AB Volvo Penta
41715 Göteborg, Sweden

is found to comply with

DNV GL Rules for classification – High speed and light craft

Application :

propulsion, multi engine plant / auxiliary / emergency

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Rating 551 kW at 1900 rpm, additional ratings see page two

This Certificate is valid until **2018-06-30**.

Issued at **Høvik** on **2017-11-07**.

DNV GL local station: **Gothenburg**

for **DNV GL**

Approval Engineer: **Dag Harald Williksen**

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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.

Job Id: **262.1-010133-3**
Certificate No: **TAM00000RM**

Product description

four stroke, in-line engine, non-reversible, trunk-piston, with supercharging

Cylinder bore : 144
Piston stroke : 165
No. of cylinders : 6

Application/Limitation

Mean indicated pressure (bar):	23.2	25.4	26.2	24.4
Max. cylinder pressure (bar):	165	177	169	176
Rated power (kW):	478	551	450	500
Corresponding to (RPM):	1800	1900	1500	1800
Definition	R1	R2	Auxiliary/Emergency	

Type Approval documentation

Tests carried out

Documentation: Type test report 77768-1
Test report title: Type test D16
Place of test: Gothenborg
Date of test: 2006-02-01 until 2006-02-08

Test engine:
Model: D16
Serial no.: 1016001219

Marking of product

The product to be marked with 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.

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.

Other Conditions

Engine safety, control and monitoring systems, including sensors and actuators are not covered by this type approval certificate. Documentation for engine safety, control including speed governing and monitoring systems shall be submitted for approval according to TAA000015V.

Electric cables and cabling are not covered by this approval and must be verified to comply with the requirement of DNV Rules for Ships/ High, Speed Light Craft and Naval Surface Craft Pt.4 Ch.8 - Electrical Installation.

Flexible hoses with couplings to be type approved by DNV.

END OF CERTIFICATE