

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000RS

This is to certify:

That the Diesel Engine

with type designation(s)
DI09M

Issued to

Scania CV AB
151 87 Södertälje, Sweden

is found to comply with

DNV GL Rules for Classification – Ships
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 323 kW at 1800 RPM, additional ratings see page two

This Certificate is valid until **2018-10-01**.

Issued at **Høvik** on **2017-11-08**

DNV GL local station: **Stockholm**

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: **262.1-014727-4**
Certificate No: **TAM00000RS**

Product description

four stroke, in-line engine, non-reversible, trunk-piston, with supercharging, with charge air cooling, direct injection, injection operation by cams, injection operation electronically controlled, valve operation by cams, liquid fuel

Cylinder bore : 130
Piston stroke : 140
No. of cylinders : 5

Application/Limitation

Rated power [kW]	257	294	269	323
Rated speed [rpm]	1800	2100	1500	1800
Mean effective pressure [bar]	18.4	18.1	23.1	23.2
Max. firing pressure [bar]	160	177	172	181
Definition	Propulsion		Auxiliary/Emergency	

Type Approval documentation

Tests carried out

Documentation:

Test report titel DI09 M Type Test Report and preparative tests, Type approval test 108h
Place of test Scania Technical Centre, test Cell L9
Date of test 2013-02-13 until 2013-02-14

Test engine:

Model DI09 M
Serial no. 6695164, 6695165
No. of cylinders 5
Power [kW] 323
Speed [rpm] 1800

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 TAA000011C, TAA0000HZ and TAA00000K5.

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