DNV·GL

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM00000VT

This is to certify:

That the Diesel Engine

with type designations
4L/4AD126TI

Issued to
Doosan Infracore Co., Ltd.
Incheon, Republic of Korea

is found to comply with
DNV GL Rules for classification, Ships - DNVGL-RU-SHIP-Pt4 Ch3 Sec1, Reciprocating Internal Combustion Engines

Application :

Propulsion / auxiliary / emergency

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **16th April, 2023**.

Issued at **Høvik** on **17th April, 2018**
DNV GL local station: **Seoul** for **DNV GL**

Approval Engineer: **Dag Harald Williksen**

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: **262.1-027518-1**
Certificate No: **TAM00000VT**

Product description

Four stroke, in-line engine, non-reversible, trunk-piston, with supercharging, with charge air cooling, constant-pressure charging system, direct injection, injection operation by cams, valve operation by cams, liquid fuel

Cylinder bore [mm]	123
Piston stroke [mm]	155
No. of cylinders	6 in-line

Application/Limitation

	4L126TIH	4L126TIM	4L126TIL	4AD126TIF	4AD126TIS
Rated power [kW]	331	364	401	257	302
Rated speed [rpm]	2000	2100	2200	1500	1800
Mean effective pressure [bar]	18	18.8	19.8	18.6	18.2
Max. firing pressure [bar]	164	172	176	146	151
	Propulsion			Auxiliary / Emergency	

Type Approval documentation

Tests carried out

Documentation:

Test report titel	Type Approval Test Result of 4L126TI & 4AD126TI
Place of test	Doosan
Date of test	2018-02-27 until 2018-03-08

Test engine:

Model	4L126TIL & 4AD126TI
Serial no.	DX12PT2-M700008 & DX12PT2-M700001
No. of cylinders	6
Power [kW] @ Speed [rpm]	401 @ 2200 & 302 @ 1800

Marking of product

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

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

In case 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

Flexible hoses to be Type Approved by DNV GL.

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 the Rules Pt.4 Ch.9 Sec.1 Table 5 and/or as listed in relevant type approval certificates.

Electric cables and installation of this is not covered by this approval and must be verified to comply with the requirement of the Rules Pt.4 Ch.8 - Electrical Installation.

END OF CERTIFICATE