DNV·GL

TYPE APPROVAL CERTIFICATE

Certificate No:
TAM000012B

This is to certify:

That the Diesel Engine

with type designation(s)
DK(M)-28(e)(F)(L)

Issued to
Anqing CSSC Diesel Engine Co., Ltd.
110 Anqing City, China

is found to comply with
DNV GL Rules for classification, Ships - DNVGL-RU-SHIP-Pt.4 Ch.3 Sec.1
Reciprocating Internal Combustion Engines

Application :

propulsion / auxiliary

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

This Certificate is valid until **31st March, 2024**.

Issued at **Hamburg** on **1st April, 2019**
DNV GL local station: **Wuhan** for **DNV GL**

Approval Engineer: **Sven Neddenien**

Burkhard Lilienthal
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: **262.1-030699-1**
Certificate No: **TAM000012B**

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

Cylinder bore [mm]	280
Piston stroke [mm]	390
No. of cylinders	6, 8

Additional place of production
not applicable

Application/Limitation

Rated power [kW/cyl.]	378.75	378.75
Rated speed [rpm]	750	720
Mean effective pressure [bar]	25.2	26.3
Max. firing pressure [bar]	177	177

Type Approval documentation
262.1-030699-1

Tests carried out
Documentation:

Test report titel	Test Records of Engine Model 8DK(M)-28e
Place of test	Moriyama Factory, Shiga
Date of test	2012-08-23 until 2012-08-24

Test engine:

Model	8DK(M)-28e
Serial no.	DKT828Z0001
No. of cylinders	8
Power [kW/cyl.]	378.75
Speed [rpm]	720

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.
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 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
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.

END OF CERTIFICATE