TYPE APPROVAL CERTIFICATE

Certificate No:
TAM000007V

This is to certify:

That the Diesel Engine
with type designation(s)
250 MDC
Issued to

GE Transportation Parts, LLC

Erie PA, United States
is found to comply with
DNV GL rules for classification – Ships

Application :

The approval is valid for propulsion in multi engine installations and auxiliary duty.
Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.
Rating see page two

This Certificate is valid until **2021-04-27**.

Issued at **Høvik** on **2016-04-28**
DNV GL local station: **New York**
Approval Engineer: **Dag Harald Williksen** for **DNV GL**

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.

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Job Id: **262.1-003736-7**
Certificate No: **TAM000007V**

Product description

Four stroke diesel engine.
Cylinder bore: 250 mm
Piston stroke: 320 mm
No.of cylinders: 6 and 8 in-line
12 and 16 in-V

Application/Limitation

The approval is valid for propulsion and auxiliary duty and is based on the following main data:

6L250MDC	8L250MDC			
Mean effective pressure, [bar]:	21,2	21,2	21,2	21,2
Max. cylinder pressure, [bar]:	220	220	220	220
Rated cont.output, [kW]:	1700	1900	2250	2500
Corresponding to, [rpm]:	900	1000	900	1000
12V250MDC	16V250MDC			
Mean effective pressure, [bar]:	19,3	19,3	22,3	22,3
Max. cylinder pressure, [bar]:	220	220	220	220
Rated cont.output, [kW]:	3150	3500	4200	4700
Corresponding to, [rpm]:	900	1000	900	1000

The engine type is approved to operate on 110% load for 1 hour out of 12 hours.

Tests carried out

- Type test of the in-line engine carried out 2016-02-18, engine type 8L250MDC, engine serial no G661150001
- Type test of the in-V engine carried out 2015-10-27, engine type 12V250MDC, engine serial no G621130001

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 a survey every second year and before the expiry date of this certificate to verify that the conditions of the type approval are complied with.
In cases where the Type Approved product is manufactured at other companies, the periodical assessment shall be carried out randomly at these companies.

Other conditions

Fundation arrangement to be submitted for each installation according to the Rules, Pt.4 Ch.3 Sec.1 [1.4] – Documentation of arrangement.
Torsional vibration calculations to be submitted for each installation according to the Rules Pt.4 Ch.2 Sec.2 – Torsional Vibration.
Signboards according to the Rules Pt.4, Ch.3, Sec.1 [2.3.6] – Warning Notice.
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 Pt.4 Ch.9 Sec.1 Table C2 and/or as listed in relevant type approval certificates.
Electric cables and cabling 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