Certificate No: LR24109023TA
Issue Date: 13/09/2024
Expiry Date: 12/08/2029

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer **HD HYUNDAI INFRACORE CO., LTD**

Address 489, Injung-ro, Dong-gu, Incheon, 22502, South Korea

Type Diesel Engines

Description 4-stroke, direct injection, single acting and Vee-type trunk piston diesel engine

Trade Name AD158TIF, AD158TIS, AD180TIF, AD180TIS, AD222TIF, AD222TIS

Application Marine emergency generator drives
Suitable for operation with marine diesel oil

Specified Standard Part 5, Chapter 2 of Lloyd's Register's Rules and Regulations for the Classification of Ships (July 2024)

Ratings Performance rating:-

	AD158TIF/TIS	AD180TIF/TIS	AD222TIF/TIS
Number of cylinders :	8 Vee	10 Vee	12 Vee
Rated power (kW) :	302/353	357/441	446/530
Engine speed (rpm) :	1500/1800	1500/1800	1500/1800
Maximum firing pressure (bar) :	118.6/121.5	118.6/121.5	118.6/121.5
Mean Indicated pressure (bar) :	18.75/18.30	17.75/18.30	18.48/18.30

Other Conditions Where the engines are intended to be installed on a ship classed with LR,

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Jong-Yong Ha
Engineering - Machinery - Senior Specialist to Lloyd's Register Asia
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Type Approval Certificate

conditions of approval in paragraph 2 of Machinery General Design Appraisal Document No. BTS/ENG/M241019, Issue No. 0, dated 13 September 2024 is to be satisfied.

Limitations:-

1) Type approval does not eliminate the need for normal inspection survey procedures required by the Rules and Regulations.

2) If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

3) (in case of applications other than Marine) The application of this Type Approval Certificate will be limited to the relevant scope of the specified standards and acceptance thereof by the local authorities.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR23369966TA-01

The Design Appraisal Document LR24109023TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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