Certificate No: LR26376759QAES
Issue Date: 01/08/2026
Expiry Date: 31/07/2029

Quality Assurance Engineering Scheme Certificate

Manufacturer IHI Power Systems Co., Ltd.

Address 125-1, Nishishinmachi, Ohta-shi, Gunma-ken, 373-0847, Japan

Scheme Type **Quality Assurance Scheme for Machinery (QAM)**

Approval Number **QAM069**

Place of Production **IHI Power Systems Co., Ltd. (Ohta Plant)**

125-1 Nishishinmachi, Ota-shi, Gunma, 373-0847, Japan

Place of Production **IHI Power Systems Co., Ltd. (Niigata Engine Plant)**

1300 Okayama Higashi-ku, Niigata-shi, Niigata, 950-0821, Japan

Place of Production **Nico Precision Co., Inc.**

1095-1, Kawakubo, Minami-Uonuma-shi, Niigata, 949-6603, Japan

Place of Production **Tsuneishi Miho Shipbuilding Co., Ltd. Niigata Factory**

4-3776, Irifune-cho, Niigata-shi, Niigata, 951-8011, Japan

Product Type Azimuth Thruster Unit
Product Name ZP Type Propullsion Unit Model (at Ohta Plant)
Product Type Diesel Engines

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Hiroki Tonda

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A member of the Lloyd's Register group

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Product Name	Engine Model (at Ohta Plant & Niigata Engine Plant)
Product Type	Fuel Injection Pressure Socket, Union
Product Name	Fuel Injection Pressure Socket, Union Model (NICO Precision Co., Inc.)
Product Type	Fuel Injection Pumps
Product Name	Fuel Injection Pumps Model (NICO Precision Co., Inc.)
Product Type	Fuel Injection Valves
Product Name	Fuel Injection Valves Model (NICO Precision Co., Inc.)
Product Type	Geislinger Couplings
Product Name	Geislinger Couplings Model (at Ohta Plant)
Product Type	Intermediate Shaft and Coupling
Product Name	Intermediate Shaft & Coupling Model (at Ohta Plant)

This is to certify that the above named manufacturer has been approved in accordance with the requirements set out in the Quality Assurance Scheme for Machinery (QAM) within the Lloyd's Register Rules and Regulations for the Classification of Ships.

The quality system and procedures at these works covering production methods, inspection and testing, quality control and general standards of workmanship have been examined and are approved for the manufacture of the undernoted product(s) at the stated place(s) of production.

Such items will be eligible for fitting in ships or other installations classed or intended for classification subject to satisfactory installation under the usual conditions of survey and testing.
This approval is conditional upon the product(s) manufactured and certified under this Scheme being in accordance with the relevant requirements of the Rules and Regulations for the Classification of Ships and the organisation and procedures being audited by the Surveyors at agreed intervals.

For details of the scope of approval see subsequent pages of this certificate.

This certificate is issued to the named manufacturer and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate and reserves the right

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to cancel or withdraw this certificate.

The Quality Assurance Scheme for Machinery is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations for the Classification of Ships are complied with.

Scope of products covered by the scheme:

1. ZP Type Propullsion Unit Model (at Ohta Plant)

ZP-10
ZP-11A
ZP-21
ZP-31 ZP-31CP ZP-31B
ZP-41 ZP-41A ZP-41CP ZP-41B

2. Engine Model (at Ohta Plant & Niigata Engine Plant)

6L (MG) 22 HX
6L (MG) 25 HX
6L (MG) 26 HLX
6L (MG) 28 AHX
6L (MG) 28 HX
8L (MG) 28 HX
8L (MG) 28 AHX
9L (MG) 28 AHX
17 AHX

3. Fuel Injection Pressure Socket, Union Model (NICO Precision Co., Inc.)

For Engine Type : L21/31

4. Fuel Injection Pumps Model (NICO Precision Co., Inc.)

For Engine Type : H17/28(U), H21/32, H25/33, H32/40, L23/30(H), L27/38, L28/32H, L32/40, V32/40

5. Fuel Injection Valves Model (NICO Precision Co., Inc.)

For Engine Type : H17/28(U), H21/32, H25/33, H32/40, L23/30(H), L27/38, L28/32H, L32/40

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6. Geislinger Couplings Model (at Ohta Plant)

BC56c310RO	BC56c312RO	
BC56/12.5/85-12	BC56/12.5/85-12RO	
BC63/15/140U-12	BC63/17.5/140U-12RO	BE63/15/85-10R0
BE72/15/140U-09	BE72/15/140U-12	BE72/20/140U-10

7. Intermediate Shaft & Coupling Model (at Ohta Plant)

Shaft Size : 125 – 140 mm
Power Rating : 735 – 2206 KW

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