Certificate No: LR2605706TA
Issue Date: 25/01/2026
Expiry Date: 24/01/2031

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	**Kompressorenbau Bannewitz GmbH**
Address	Windbergstrasse 45, Bannewitz, 01728, Germany
Type	Exhaust Gas Systems
Description	Exhaust gas turbocharger with two inner slide bearings and separate lubrication oil system from diesel engine.
Trade Name	HPR3000, HPR4000, HPR5000 and HPR6000
Application	As exhaust gas turbocharger on diesel engines for marine, offshore and industrial services.
Specified Standard	Lloyd`s Register Rules and Regulations for the Classification of Ships, 2025

Ratings

	HPR3000,	HPR4000,	HPR5000,	HPR6000
Max. Speed:	58000 rpm	48000 rpm	41500 rpm	34600 rpm
Max.Temp. :	650 °C			
Served power by cylinder group:	1000 kW	1500kW	2000 kW	3200 kW
ETC category:	A	B	B	C

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Torsten Schroeder

Engineering - Piping/ Decarbonisation - Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Type Approval Certificate

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2116277TA, (previous 01/20008 (E4))

The Design Appraisal Document TSO/25-047812, (previous HMD 9055-02, Issue No. 4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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