Certificate No: LR2003930TA
Issue Date: 11/10/2019
Expiry Date: 10/10/2024

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	**SANDFIRDEN TECHNICS B.V.**
Address	Haventerrein 1, Den Oever, 1779 GS, Netherlands
Place of Production	AGCO POWER Oy Linnavuorentie 8-10, Linnavuori, 37240, Finland
Type	Internal Combustion Engines
Description	Reciprocating, non-reversible, high speed, 4 cylinder in-line oil engine, 4SCSA, direct mechanical injection, exhaust gas turbocharging, charge air cooling
Trade Name	49 DTG / 49 DTAG
Application	Prime movers for auxiliary power generation services and emergency genset
Specified Standard	LR Rules and Regulations for Classification of Ships, July 2019 LR Type Approval Specification No. 4, February 2015

Ratings

Type	49DTAG-2V	49 DTG-2V
Output (MCR)	95kW	74kW
Speed at MCR	1500rpm	1500 rpm

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Matthijs Breel

Lead Specialist Propulsion Systems and
Deputy to Lloyd's Register EMEA
A member of the Lloyd's Register Group

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

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Max. firing pressure	121.6bar	96 bar
MIP	18.2bar	12.1 bar

Other Conditions Approval of this engine type is subject to maintaining Type Approval of the ancillaries listed on the Machinery General Design Appraisal with GA. Reg. No. ROT.10.M.004(E2).

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.

The Design Appraisal Document No. PRJ11093982/ROT/10.M.0171, Issue 3 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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