Certificate No: LR26227476REP
Issue Date: 21/04/2026
Expiry Date: 20/02/2029

Certificate Of Thermal Spraying Approval

Manufacturer **Tru-Marine Pte Ltd**

Address 35 Tuas Basin Link, Singapore, 638769, Singapore

Process Flame

Arc

This certificate is issued to the manufacturer named above who has been approved in accordance with the requirements of Lloyd's Register for thermal spraying of components using the above processes in accordance with the approved procedures listed below.

Scope of Approval **Thermal spray coatings to marine diesel turbocharger (VTR type) components using the following processes:**

1. Powder Flame Spraying to TSPS No: PFS-TSPS01-2004 rotor shaft ends.

2. Powder Flame Spraying to TSPS No: PFS-TSPS02-2004 rotor shafts.

3. Arc Spraying to TSPS No. AS-TSPS01-2004 turbocharger cover rings.

Lloyd's Register Repair Approval Reference No: 043.

Application **Thermal spray coatings for marine diesel turbocharger (VTR type) components.**

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Clive Arnold

Metallurgy Team - Lead Specialist 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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This approval is subject to compliance with the requirements of Lloyd's Register. Each application is to be separately approved by Lloyd's Register and carried out to the satisfaction of the Surveyor.

Lloyd's Register will consider thermal spraying for surfacing applications to improve resistance to wear and corrosion, and to restore worn or inaccurately machined parts to original dimensions. Approval is based, however, on the condition that no dependants is placed on the coating for tensile or torsional strength and that machined preparations do not reduce dimensions below Rule requirements.

Lloyd's Register is to be notified of any change of plant, formulation or quality control routines introduced during the validity of this Certificate.

This Certificate is issued to the above company and, subject to regular audits to ensure continued implementation of the thermal spraying procedures and quality system, is valid until the date given above.

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