Certificate No: LR1900801REP
Issue Date: 3 Jul 2019
Expiry Date: 1 Jul 2022

Certificate Of Thermal Spraying Approval

Manufacturer	**Sulzer Rotating Equipment Services**
Address	York Service Centre, Amy Johnson Way, Clifton Moor,, York, YO30 4WT, United Kingdom
Process	**Plasma & HVOF**

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

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.

Each application for thermal spraying of engine crankshafts and main propulsion shafting is to be approved by Lloyd's Register London on a case by case basis.

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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APPROVED

71 Fenchurch Street, London, EC3M 4BS, UK

Clive Arnold

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A member of the Lloyd's Register Group

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