



Certificate No : MNDE/REP/0015/04

**Metalock Engineering Sweden AB**  
Ulvögatan 12  
SE-211 24 Malmö  
Sweden

has been approved in accordance with the requirements of Lloyd's Register for the application of **thermal spray coatings** using the following processes:

**Flame or Arc spraying zinc, aluminium and their alloys for corrosion protection, anti-slip and permanent identification applications**

**Flame, Arc, Plasma and HVOF spraying of engineering components**

This approval is subject to compliance with the requirements of Lloyds Register. Each application is to be separately approved by Lloyds Register and carried out to the satisfaction of the Surveyor.

LR 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 dependence 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 LR 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 contractor and is valid until the date given below.

Valid until: 14 October 2014  
Date of issue: 7 December 2011

**C D Waylen**  
Lead Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register Group

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.