Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

4192

Accredited to ISO/IEC 17025:2017

The University of Sheffield, Advanced Manufacturing Research Centre with Boeing

Issue No: 015 **Issue date:** 13 December 2021

Advanced Manufacturing Park
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E-Mail: t.brayford@amrc.co.uk
Website: amrc.co.uk

Testing performed by the Organisation at the locations specified below

Location details		Activity	Location code
Address **Knowledge Transfer Centre (KTC)** **Advanced Manufacturing Research Centre** **Brunel Way** Catcliffe Rotherham S60 5WG	**Local contact** Mr T Brayford Tel: +44 (0)114 222 9903 E-Mail: t.brayford@amrc.co.uk	**Testing:** Mechanical Tests: Tensile Physical Tests: Force Fatigue	A
Royce Translational Centre Sheffield Business Park Europa Ave Tinsley Sheffield S9 1ZA	Mr T Brayford Tel: +44 (0)114 222 9903 E-Mail: t.brayford@amrc.co.uk	Mechanical Tests: Hardness Knoop Physical Tests: Surface Texture Metallurgical Tests: Microstructural Examination	B

4192
Accredited to
ISO/IEC 17025:2005

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United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

The Advanced Manufacturing Research Centre with Boeing

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Testing performed at main address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS including CASTINGS, ENGINE COMPONENTS and FORGINGS	<u>Mechanical Tests</u> Hardness: Knoop Test forces 50g, & 100g Tensile: (temperature - ambient) forces up to 50 kN <u>Metallurgical Tests</u> Microstructural Examination	 ASTM E384-17 BS EN ISO 6892-1:2019 BS EN 2002-1:2005 ASTM E8/E8M-16a DIHM L.I.AMRC.04 Rev3
METALS, ALLOYS and METAL PRODUCTS	<u>Physical Tests</u> Surface texture (Ra and Rz)	 MeS.429 Rev 2 BS 1134:2010
AMRC is accredited for a flexible scope that enables them to establish new and amended test methods, modification of existing methods and include newly revised or technically equivalent methods to conduct the activities detailed below, in accordance with their documented in-house procedure ASTC OP 1.0	Static Uniaxial Force (±2000KN) Low cycle Fatigue, tensile/compressive and complex waveforms with: (a) Force control (±1000KN) (b) Displacement control (±100mm) Pressure (250 Bar)	DIHM developed using procedure ASTC OP 1.0
END		