


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0084</p> <p>Accredited to ISO/IEC 17025:2005</p>	NDT Services Ltd Issue No: 043 Issue date: 21 December 2017	
	Unit 10A Victory Park Victory Road Derby Derbyshire DE24 8ZF	Contact: Mr Andy Harrison Tel: +44 (0)1332 275700 E-Mail: andy.harrison@intertek.com Website: www.ndtservices.co.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Location Address Unit 10A Victory Park Victory Road Derby Derbyshire DE24 8ZF Local contact Mr Andy Harrison Tel: +44 (0)1332 275700 Fax: N/A E-Mail: andy.harrison@intertek.com	Metals & Weldments - Coatings Metals & Weldments - Corrosion tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Metals & Weldments - NDT tests	A
Location Address Unit No 5 Victory House 99 Victory Road Derby DE24 8EL Local contact Mr Ian Copestake Tel: +44 (0)1332 275820 Fax: N/A E-Mail: ian.copestake@ndtservices.co.uk	Metals & Weldments - Chemical tests Metals & Weldments - Corrosion tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Metals & Weldments - NDT tests	B

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Location Address Any suitable customer premises Local contact Mr. Andy Harrison Tel: +44 (0)1332 275700 Fax: N/A E-Mail: andy.harrison@intertek.com	Metals & Weldments - NDT tests	C



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS	<u>Chemical Tests</u>		
Cast Iron	Elemental Analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, B, Co, Pb, Ti, V, Nb, W, Sn, Mg, As	Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry	B
Low and High alloy steels	Elemental Analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, B, Co, Pb, Ti, V, Nb, W, Sn	Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry	B
Stainless Steel	Elemental Analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, B, Co, Pb, Ti, V, Nb, W, Sn	Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry	B
Aluminium and Aluminium alloys	Elemental Analysis Cu, Si, Mn, Cr, Ni, Al, Pb, Mg, Co, Fe, Sb, Sn, Ti, Zn, Zr	Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry	B
Copper and Copper alloys	Elemental Analysis Si, Mn, P, S, Ni, Al, As, Cu, Pb, Sn, Zn, Fe	Documented In-House Methods MCP 052 and MCP 056 using spark source optical emission spectrometry	B
	<u>Corrosion Tests</u>		
Austenitic stainless steels,	Intergranular attack	ASTM G28-02(15) Practices A & B	B
Wrought, nickel and chromium bearing alloys	Intergranular attack	BS EN ISO 3651-2:1998 Method A, B & C ASTM A262 -15 Practices A, B, C, E & F	B
Stainless steels	Pitting resistance	ASTM G48 -11 Method A	B
Metal products, forging and castings	<u>Physical tests</u>		
	Surface roughness	BS 1134-1:2010 Documented In-House Method MCP 049	B



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438:2016 ASTM E290 -14	B
	<u>Hardness:</u> Portable (comparative)	Documented In-House Method MCP 09 using Equotip equipment	B
	Vickers HV30 and HV10 HV0.2 and HV0.5	BS EN ISO 6507-1:2005	B
	Brinell (HBW 10/3000)	BS EN ISO 6506-1:2014 ASTM E10-17	B
	Rockwell (B and C Scales)	BS EN ISO 6508-1:2016	B
	<u>Tensile:</u> Tensile (ambient temperature) (Force from 0.4kN to 1000kN)	BS EN ISO 6892-1:2016 BS EN 2002-1:2005 BS 4A4:Part 1:Section 1:1966 ASTM A370-17 ASTM E8/E8M-16a	B
	Tensile (elevated temperature) (Force from 6kN to 50kN) (T = ambient to 600°C)	BS EN ISO 6892-2:2011 ASTM E21-09	B
	<u>Impact:</u> Charpy (V-notch) (Temperatures -196°C and -80°C to ambient)	BS EN ISO 148-1:2010 ASTM E23-16b	B
	Izod	BS 131-1:1961	B
Lateral expansion and percent shear	BS EN ISO 148-1:2010 ASTM E23-16b	B	



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallurgical Tests</u>		
	Volume fraction	ASTM E562-11	B
	Case depth	BS 6286:1982(2005) BS 6479:1984(1990) (withdrawn) BS EN 10328:2005 BS EN ISO 2639:2002	B
	Assessment of microstructures	Documented in-House Method MCP 80	B
LIGHT and DENSE METALS and ALLOYS including casting, forging & weldments	<u>Non Destructive Testing</u>		
	<u>Eddy Current Flaw Detection:</u> Manual scanning equipment Automatic scanning equipment	BS EN 1971-1:2011 BS EN 1971-2:2011 BS EN ISO 10893-1:2011 BS EN ISO 15549:2010 ASME V:2017	A
	<u>Liquid Penetrant:</u> Colour contrast - manual application Fluorescent - immersion line (Site A)	BS M 39:1972 BS EN ISO 3452-1:2013 BS EN ISO 3452-2:2013 BS EN ISO 3452-3:2013 BS EN ISO 3452-4:1999 BS EN ISO 3452-5:2008 BS EN ISO 3452-6:2008 ASTM E165-12 ASTM E1417-16 ASME V:2017 RRP 58003:Issue G AWS D17.1/D17.1M:2017	A, B
<u>Radiography:</u> X-Ray (15 keV to 320 keV - Site A) (50 keV to 225 keV - Site C)	BS EN ISO 5579:2013 BS EN ISO 17636-1:2013 BS EN ISO 17636-2:2013 ASME V:2017 RRP 58006:Issue E BS ISO 24394:2008+A1:2012 AWS D17.1/D17.1M:2017	A, C	



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LIGHT and DENSE METALS and ALLOYS including casting, forging & weldments (cont'd)	<u>Non Destructive Testing</u> (cont'd)		
	Gamma-Ray Ir 192 up to 740 GBq (20 Ci) Se 75 up to 80 curies Ytb 169 up to 10 curies	BS M 34:1970(1984) BS EN ISO 5579:2013 BS EN ISO 17636-1:2013 BS EN ISO 17636-2:2013 ASTM E94-17 ASTM E1742-12 ASME V:2017 AMS 2175 Rev A DIN 54111:Part 1:1988 MIL-STD453C(1984) (Superseded) MIL-STD 2175(1984) (Superseded) RRP 58006:Issue E BS ISO 24394:2008+A1:2012 AWS D17.1/D17.1M:2017	A, C
	<u>Ultrasonic Flaw Detection:</u>		
	Automated examination method	BS EN 10160:1999 BS EN ISO 17640:2010 AMS-STD-2154 Rev A	A
	Immersion method	BS M 36:1970(1984) AMS-STD-2154 Rev A RRP 58001:Issue B	A
	Manual contact method	BS EN 10160:1999 BS EN 10228-3:2016 BS EN ISO 17640:2010 ASME V:2017 AMS-STD-2154 Rev A RRP 58002:Issue B	A, C
LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments, aerospace structures and components	<u>Eddy Current Flaw Detection</u>	BS EN ISO 10893-1:2011 BS EN ISO 10893-2:2011 BS EN ISO 15549:2010 ASME V:2017 Aircraft manufacturers recommended in-service inspection techniques	C



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LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments, aerospace structures and components (cont'd)	<u>Liquid Penetrant:</u> Colour contrast - manual application Fluorescent - manual application	BS M 39:1972 BS EN ISO 3452-1:2013 ASTM E165-12 ASTM E1417-16 ASME V:2017 Aircraft manufacturers recommended in-service inspection techniques	C
FEROMAGNETIC METALS	<u>Magnetic Particle:</u> Black ink - universal and portable kit Fluorescent ink - universal and portable kit (AC and DC up to 3000 A)	BS 6072:1981(1986) BS EN 17638:2016 BS EN ISO 9934-1:2016 ASTM E1444-/E1444M-16e1 ASME V:2017 MIL-STD 1949(1985) (Superseded)	A, C
		RRP 58004:Issue F BS ISO 24394:2008+A1:2012 AWS D17.1/D17.1M:2017	A
		Aircraft manufacturers recommended in-service inspection techniques	C
	<u>Magnetic particle:</u> Current flow method (up to 800A - AC & DC) Magnetic flow method Magnetic yoke method	BS 6072:1981(1986) BS EN 10228-1:2016 BS EN ISO 9934-1:2016 BS EN 17638:2016 ASTM E709-15 ASME V:2017	B
<u>Magnetic particle:</u> Magnetic flow method Magnetic yoke method Portable equipment	BS 6072:1981 (1986) BS EN 10228-1:2016 BS EN ISO 9934-1:2016 BS EN 17638:2016 ASTM E709-15 ASME V:2017	C	



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METALS, ALLOYS and METAL PRODUCTS WELDMENTS	<u>Mechanical, Metallurgical and Non Destructive Tests</u> Tests designated in specified welding codes as detailed below: Bend, Fracture, Hardness, Tensile, Liquid Penetrant, Magnetic Particle, Macro- and Micro-examination, Radiography, Ultrasonic and Visual Examination in accordance with specific welding codes	BS 1140:1993 BS 4872:Part 1:1982(1999) BS 4872:Part 2:1976(1999) BS EN 287-1:2011 BS EN ISO 9606-1:2017 BS EN ISO 15609-1:2004 BS EN ISO 15613:2004 BS EN ISO 15614-1:2017 BS EN ISO 15614-2:2005 BS EN ISO 15614-3:2008 BS EN ISO 15614-5:2004 BS EN ISO 15614-6:2006 BS EN ISO 15614-7:2016 BS EN ISO 15614-8:2016 BS EN ISO 9017:2013 BS EN ISO17639:2013 BS EN ISO 4136:2012 BS EN ISO 5173+A1:2011 BS EN ISO 5178:2011 BS EN ISO 9015-1:2011 BS EN ISO 9016:2012 BS EN ISO 9606-2:2004 BS EN ISO 17637:2016 BPVC ASME IX:2017 BCAR A8-10 RPS 912 Issue 18 PD 5500:2015+A2:2016 BS ISO 24394:2008+A1:2012 AWS D17.1/D17.1M:2017	A, B*

* NDT techniques not specific to any site - contact laboratory for further details.

END