


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0077 Accredited to ISO/IEC 17025:2005	Minton, Treharne and Davies Limited	
	Issue No: 046 Issue date: 14 June 2017	
Merton House Croescadarn Close North Pentwyn Cardiff South Glamorgan Wales CF23 8HF	Contact: Jon Coldman Tel: +44 (0)2920 540000 Fax: +44 (0)2920 540111 E-Mail: jon.coldman@minton.co.uk Website: www.minton.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
Address Merton House Croescadarn Close North Pentwyn Cardiff South Glamorgan Wales CF23 8HF Local contact Mr Jon Coldman Tel: +44 (0)2920 540000 Fax: +44 (0)2920 540111 Email: jon.coldman@minto.co.uk Website: www.minton.co.uk	Non-Destructive Testing Construction Testing Mechanical Testing Environmental Chemistry Oils and Solid Fuels Testing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
All site locations suitable for the activities listed	Physical Testing of Soils Non-Destructive Testing of Metals	B



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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
AGGREGATES	<u>Chemical Tests</u> Water-soluble chloride content	BS EN 1744-1:2009	A
CONCRETE - hardened	<u>Chemical Tests</u> Chloride content	BS 1881:Part 124:1988	A
METALS, ALLOYS and METAL PRODUCTS	<u>Mechanical Tests</u> Tensile (ambient temperature) (Forces up to 500 kN)	BS EN ISO 6892-1:2016 Method B ASTM A370-16	A
	Vickers hardness (HV10)	BS EN ISO 6507-1:2005	A
	Charpy V-notch impact (temperatures from -50°C to ambient)	BS EN ISO 148-1:2016	A
WELDMENTS	<u>Mechanical and Metallurgical Tests</u> Bend, fracture, hardness, Impact, Tensile and Macro-examination tests in accordance with the specified welding codes	BS 4872-1:1982 BS 4872-2:1976 BS EN 287-1:2011 BS EN ISO 9606-1:2013 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2004 + A2 :2012 BS EN ISO 15614-2:2005 BS EN ISO 9016:2012 BS EN ISO 9017:2013 BS EN ISO 5178:2011 BS EN ISO 4136:2012 BS EN ISO 5173:2010+A1 :2011 BS EN ISO 9015-1:2011 BS EN ISO 17639:2013 ASME IX:2015	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
LIGHT and DENSE METALS and ALLOYS including Castings, Weldments, Forgings, Components and Structures, Composite Materials	<u>Non-Destructive Tests</u> Ultrasonic Testing Flaw Detection and Thickness Measurement	BS EN ISO 17635:2010 BS EN ISO 17640:2010 BS EN 583-1:1999 (withdrawn) BS EN 14127:2004 (withdrawn) ASME V Article 5 : 2015 RRP 58002 rev B <u>Equipment</u> Ultrasonic 'A-Scan' Flaw Detection Equipment and Thickness Meters	A, B
	Liquid Penetrant Inspection Colour Contrasts and Fluorescent Penetrants	BS EN 571-1:1997 (withdrawn) BS EN ISO 3452-1:2013 ASME V Article 6:2015 RRP 58003 Rev F <u>Equipment</u> Fixed Penetrant Line Equipment and Portable Equipment	A, B
	Radiography X-Ray (<300 Kv) and γ -Ray; Iridium 192 (<27 Ci's)	BS EN 1435:1997(withdrawn) BS EN ISO 17636-1:2013 ASME V Article 2:2015 RRP 58006 Rev D <u>Equipment</u> Fixed and Portable X-Ray and Gamma Equipment	A, B



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LIGHT and DENSE METALS and ALLOYS including Castings, Weldments, Forgings, Components and Structures, Composite Materials (cont'd)	<u>Non-Destructive Tests</u> (cont'd) Magnetic Particle Inspection Ferromagnetic materials, Permanent and electrically-induced magnetism	BS EN ISO 17638:2009 BS EN ISO 9934, Part 1:2001 ASME V Article 7:2015 RRP 58004 Rev E <u>Equipment</u> Permanent magnets Electromagnets 110 v/240 v Prods & Flexible Coil Horizontal Bench Unit (3000 amps)	A, B
WELDMENTS ONLY	Eddy Current Testing (By complex plane analysis using Portable Flaw Detectors)	BS EN 1711:2000 BS EN ISO 15549:2010 ASME V Article 8:2015	A, B
	Visual Examination of Welds	BS EN 13018:2001 BS EN ISO 17637 :2011 ASME V Article 9:2015 RRP 58007 Rev A	A
SOLID FUELS, COAL and COKE	<u>Chemical Tests</u> Phosphorus	Modification of: ASTM D3682:2001 using ICP-OES	A
	Ultimate Analysis:		
	Sulphur	BS ISO 334:2013 BS 1016:Part 106.4.2:1996 ISO 351:1996	A
	Proximate Analysis	ISO 1171:2010 BS ISO 562:2010 ISO 11722:2013 BS ISO 687:2010	A



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SOLID FUELS, COAL and COKE (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Micum and Irsid Indices	BS 1016:Part 108, 2:1992(2012) ISO 556:1980(E) section 6.3	A
	Total moisture of Coal	ISO 11722:2013 ISO 589:2008	A
	Total moisture of Coke	BS ISO 579:2013	A
PETROLEUM PRODUCTS	Gross Calorific Value	ISO 1928:2009	A
	<u>Chemical and Physical Tests</u>	Note: IP / ASTM methods marked with a * are "joint" methods as stated on the Energy Institute web site, the ASTM methods may not be the latest revision issued.	
	Cloud point of petroleum oils	IP 219/94(13) ISO 3015:92 EN 23015:94	A
	Density and relative density of liquids	Using digital density meter IP 365/97(04) ISO 12185:96 EN 12185:96 BS 2000-365:96	A
	Distillation characteristics of petroleum products	IP 123/11 ISO 3405:11 EN 3405:11 BS2000-123:11	A
	Colour	Using Seta Lovibond Colour comparator ASTM D1500: 12	A
	Stability Test	Seta sediment tester by hot filtration IP390A & B: 11	A
	Density and API Gravity	Using Anton Paar/Kyoto Densitometer ASTM D4052: 15	A



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PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Note: IP / ASTM methods marked with a * are "joint" methods as stated on the Energy Institute web site, the ASTM methods may not be the latest revision issued.	
	Flash point	by Pensky-Martens closed tester IP 34 /03 <i>IP-ASTM Joint Method</i> (ASTM D 93-02) Methods A&B * BS 2000: Part 34: 2002 Methods A&B EN ISO 2719: 2002 Methods A&B ISO 2719:2002 Methods A&B	A
	Water content of liquids	Coulometric Karl-Fischer Titration: IP438/01(13) BS EN ISO 12937:2001 BS 2000-438:2001	A
	Ash content	IP 4 /05 (2012) <i>IP-ASTM Joint Method</i> (ASTM D 482-03) * BS 2000: Part 4: 2002 EN ISO 6245: 2002 ISO 6245: 2001	A
Fuels oils and lubricating oils	Kinematic viscosity	IP 71 Section 1 /97 <i>IP-ASTM Equivalent Test Method</i> (ASTM D 445-15a) * BS 2000: Part 71: Section 1: 1996 EN ISO 3104: 1996 ISO 3104: 1994	A
	Kinematic viscosity	IP 71 Section 2 /95 (2004) <i>IP-ASTM Equivalent Test Method</i> (ASTM D 446-12) * BS 2000: Part 71: Section 2: 1995 ISO 3105: 1994	A
	Pour point of petroleum oils	IP 15 /95 (2014) <i>IP-ASTM Joint Method</i> (ASTM D 97-02) * BS 2000: Part 15: 1995 ISO 3016: 1994	A



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PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests cont'd</u>	Note: IP / ASTM methods marked with a * are "joint" methods as stated on the Energy Institute web site, the ASTM methods may not be the latest revision issued.	
	Water content	Dean and Stark distillation: IP 74 /2000 (2014) IP-ASTM Joint Method (ASTM D 95-13) * BS 2000: Part 74: 2000 ISO 3733: 1999	A
Fuel Oils	Sulphur Content	Using Energy dispersive x-ray Fluorescence spectrometry: IP336/04 ISO 8754:03 EN 8754:03 BS 2000-336:03	A
Fuel Oils (cont'd)	Carbon Residue	IP398/ 15 ISO 10370:93 EN 10370:95 BS2000-398:96	A
	Total Sediments	IP 375 /11 IP-ASTM Joint Method (ASTM D 4870-09) * BS 2000: Part 375: 2011 ISO 10307-1: 2009	A
	Strong acid number	Using colour indicator titration: IP 139 /98 (2004) IP-ASTM Joint Method (ASTM D 974-02) * BS 2000: Part 139: 1998 ISO 6618: 1996	A
Distillate fuels	Cold filter plugging point	IP 309/99 EN 116:97 BS 2000-309:98	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
RAW and INDUSTRIAL PROCESS WATERS, LEACHATES and EFFLUENTS	<u>Chemical Tests</u> Determination of: Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Lithium Magnesium Mercury Manganese Molybdenum Nickel Phosphorus Potassium Selenium Silver Sodium Strontium Tin Vanadium Zinc	Documented In-House Methods based on Standing Committee of Analysts (SCA), 'Methods for the Examination of Water and Waste Water' Documented In-House Method AES 1017 using ICP-OES	A



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RAW and INDUSTRIAL PROCESS WATERS, LEACHATES and EFFLUENTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods based on Standing Committee of Analysts (SCA), 'Methods for the Examination of Water and Waste Water'	
	Alkalinity	Documented In-House Method AES 1025 using Titration	A
	Chemical Oxygen Demand	Documented In-House Method AES 1029 using Oxidation / Colourimetry	A
	Total Cyanide	Documented In-House Method AES 1018 using Distillation / Spectrometry	A
	Chloride	Documented In-House Method AES 1042 using Titration	A
	Electrical conductivity	Documented In-House Method AES 1044 using Meter & Probe	A
	Phenols, monohydric	Documented In-House Method AES 1021 base on "Phenols in waters and effluents, 1981" Method B, (MEWAM)	A
	pH value	Documented In-House Method AES 1035 using Meter & Probe	A
	Suspended solids	Documented In-House Method AES 1041 using Gravimetry	A
Silicate	Documented In-House Method AES 1040 using Colourimetry	A	



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TAP WATERS (Non-regulatory)	Determination of: Antimony Arsenic Barium Cadmium Chromium Copper Lead Mercury Nickel Selenium Zinc	Documented In House Method AES 1048 using ICP-MS	A
SOILS, SLUDGES, and SEDIMENTS	<u>Chemical Tests</u> (cont'd) Determination of: Aluminium Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Lead Iron Lithium Magnesium Mercury Molybdenum Nickel Phosphorus Potassium Sodium Strontium Tin Vanadium Zinc	Documented In-House Method AES 1005 using ICP-MS	A



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SOILS, SLUDGES, SEDIMENTS and WASTES	Total Cyanide	Documented In-House Method AES 1018 based on "Official, Standardised and Recommended Methods of Analysis" (Soc Anal Chem 1973) (P.455)	A
	Total Sulphur	Documented In-House Method AES 1022 using ICP-OES	A
	Water-Soluble Boron	Documented In-House Method AES 1012 using Spectrometry	A
	Moisture content	Documented In-House Method AES 1023 using Gravimetry	A
	Phenols (Monohydric)	Documented In-House Method AES 1021 based on "Phenols in water and Effluents, 1981", Method B, (MEWAM) adapted to soil testing	A
	pH value	Documented In-House Method AES 1014 using Meter & Probe	A
	Sulphate, acid-soluble	Documented In-House Method AES 1020 using Acid Digestion / ICP-OES	A
	Sulphide, acid-soluble	Documented In-House Method AES 1026 using Distillation / Spectrometry	A
	Toluene - extractable material	Documented In-House Method AES 1030 using SOXHLET	A
END			



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Accreditation for the purpose of Notified Body Activity taking into account EA2/17 and relevant requirements of EN ISO/IEC 17020

Directive/Regulation	Conformity Assessment procedure/Module/Article	Category of products or individual products	Methods / Procedures Essential requirements: Product specification/ Properties / Standards
<p>Pressure Equipment Directive 2014/68/EU implemented by;</p> <p><i>Statutory Instrument Pending</i></p> <p><i>From 19th July 2016</i></p>	<p>Directive: Annex I – 3.1.2 <i>Regulations: TBA</i></p>	<p>Categories II III and IV</p> <p>Approval of permanent joining procedures and personnel</p>	<p>Documented in house method MTD PCPNDT 2129</p>

Note: The inspection of items above are subject to legislative requirements including the appointment of bodies' to carry out conformity assessment. Reference should be made to the relevant Government Departments BIS for information on this and listings of bodies recognised under UK legislation

END