


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0077</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Minton, Treharne and Davies Limited</h3> <p>Issue No: 056 Issue date: 28 November 2019</p>	
	<p>Merton House Croescadarn Close North Pentwyn Cardiff South Glamorgan Wales CF23 8HF</p>	<p>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</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Merton House Croescadarn Close North Pentwyn Cardiff South Glamorgan Wales CF23 8HF</p> <p>Local contact Mr Jon Coldman Tel: +44 (0)2920 540000 Fax: +44 (0)2920 540111 Email: jon.coldman@minton.co.uk Website: www.minton.co.uk</p>	<p>Non-Destructive Testing Construction Testing Environmental Chemistry Oils and Solid Fuels Testing</p>	A
<p>Longwood Drive Forest Farm Cardiff South Glamorgan Wales CF14 7HY</p> <p>Mr Jon Coldman Tel: +44 (0)2920 540000 Fax: +44 (0)2920 540111 Email: jon.coldman@minton.co.uk Website: www.minton.co.uk</p>	<p>Mechanical Testing Oils Testing Environmental Chemistry</p>	C

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>All site locations suitable for the activities listed</p>	<p>Inspection _ Permanent Joining Non-Destructive Testing of Metals</p>	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>	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
CONCRETE - hardened	Water-soluble chloride content	BS EN 1744-1	A
	<u>Chemical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
	Chloride content	BS 1881:Part 124	A
METALS, ALLOYS and METAL PRODUCTS	<u>Mechanical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
	Tensile (ambient temperature) (Forces up to 500 kN)	BS EN ISO 6892-1 Method B ASTM A370	C
	Vickers hardness (HV10)	BS EN ISO 6507-1	C
	Charpy V-notch impact (temperatures from -50°C to ambient)	BS EN ISO 148-1	C



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	C
WELDMENTS	<u>Mechanical and Metallurgical Tests</u> Bend, Fracture, Hardness, Tensile, Charpy and Macro-examination tests in accordance with the specified welding codes	BS 4872-1 BS 4872-2 BS EN 287-1 BS EN ISO 9606-1 BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS EN ISO 9017 BS EN ISO 5178 BS EN ISO 4136 BS EN ISO 5173 BS EN ISO 9015-1 BS EN ISO 17639 ASME IX	
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	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19 BS EN ISO 17635 BS EN ISO 17640 BS EN 583-1:1999 (withdrawn) BS EN 14127:2004 (withdrawn) ASME V Article 5 <u>Equipment</u> Ultrasonic 'A-Scan' Flaw Detection Equipment and Thickness Meters	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)	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	A, B
	Liquid Penetrant Inspection Colour Contrasts and Fluorescent Penetrants	BS EN 571-1:1997 (withdrawn) BS EN ISO 3452-1 ASME V Article 6 RRP 58003 <u>Equipment</u> Fixed Penetrant Line Equipment and Portable Equipment	
	Radiography X-Ray (<300 Kv) and γ -Ray; Iridium 192 (<27 Ci's)	BS EN 1435:1997(withdrawn) BS EN ISO 17636-1 ASME V Article 2 RRP 58006 <u>Equipment</u> Fixed and Portable X-Ray and Gamma Equipment	
	Magnetic Particle Inspection Ferromagnetic materials, Permanent and electrically-induced magnetism	BS EN ISO 17638 BS EN ISO 9934, Part 1 ASME V Article 7 <u>Equipment</u> Permanent magnets Electromagnets 110 v/240 v Prods & Flexible Coil Horizontal Bench Unit (3000 amps)	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)	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
WELDMENTS ONLY	Eddy Current Testing (By complex plane analysis using Portable Flaw Detectors)	BS EN 1711 BS EN ISO 15549 ASME V Article 8	A, B
	Visual Examination of Welds	BS EN 13018 BS EN ISO 17637 ASME V Article 9	A
SOLID FUELS, COAL and COKE	<u>Chemical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
	Phosphorus	Modification of: ASTM D3682 using ICP-OES	A
	Ultimate Analysis: Sulphur	BS ISO 334 BS 1016:Part 106.4.2 ISO 351	A
	Proximate Analysis	ISO 1171 BS ISO 562 ISO 11722 BS ISO 687	A
	Micum and Irsid Indices	BS 1016:Part 108, 2 ISO 556 section 6.3	A
	Total moisture of Coal	ISO 11722 ISO 589	A
	Total moisture of Coke	BS ISO 579	A
	Gross Calorific Value	ISO 1928	A



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PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
	Cloud point of petroleum oils	IP 219 ISO 3015 EN 23015	C
	Density and relative density of liquids	Using digital density meter IP 365 ISO 12185 EN 12185 BS 2000-365	C
	Colour	Using Seta Lovibond Colour comparator ASTM D1500	C
	Stability Test	Seta sediment tester by hot filtration IP390A & B	C
	Density and API Gravity	Using Anton Paar/Kyoto Densitometer ASTM D4052	C
	Flash point	by Pensky-Martens closed tester IP 34 <i>IP-ASTM Joint Method</i> ASTM D 93 Methods A&B BS 2000: Part 34: Methods A&B EN ISO 2719 Methods A&B ISO 2719 Methods A&B	C
	Water content of liquids	Coulometric Karl-Fischer Titration: IP438 BS EN ISO 12937 BS 2000-438	C
	Ash content	IP 4 <i>IP-ASTM Joint Method</i> ASTM D 482 BS 2000: Part 4 EN ISO 6245 ISO 6245	C



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PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
Fuels oils and lubricating oils	Sulphur Content	Using UV Fluorescence EN ISO 20846 ASTM D5453	C
	Kinematic viscosity	IP 71 Section 1 <i>IP-ASTM Equivalent Test Method</i> ASTM D 445 BS 2000: Part 71: Section 1 EN ISO 3104 ISO 3104	C
	Kinematic viscosity	IP 71 Section 2 <i>IP-ASTM Equivalent Test Method</i> ASTM D 446 BS 2000: Part 71: Section 2 ISO 3105	C
	Pour point of petroleum oils	IP 15 <i>IP-ASTM Joint Method</i> ASTM D 97 BS 2000: Part 15 ISO 3016	C
Fuel Oils	Water content	Dean and Stark distillation: IP 74 <i>IP-ASTM Joint Method</i> ASTM D 95 BS 2000: Part 74 ISO 3733	C
	Sulphur Content	Using Energy dispersive x-ray Fluorescence spectrometry: IP336 ISO 8754 EN 8754 BS 2000-336	C



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PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods and technically equivalent standard methods to be introduced in accordance with documented in-house procedure QP19	
Fuel Oils (cont'd)	Carbon Residue	IP398 IP-ASTM Joint Method ASTM D4530 ISO 10370 EN 10370 BS2000-398	C
	Total Sediments	IP 375 /11 IP-ASTM Joint Method ASTM D 4870 BS 2000: Part 375 ISO 10307-1	C
TRADE EFFLUENT	<u>Chemical Tests</u>	Documented In-House Methods based on Standing Committee of Analysts (SCA), 'Methods for the Examination of Water and Waste Water'	C
	Alkalinity	Documented In-House Method AES 1025 using Titration	C
	Total Cyanide	Documented In-House Method AES 1018 using Distillation / Spectrometry	A
	Chloride	Documented In-House Method AES 1042 using Titration	C
	Electrical conductivity	Documented In-House Method AES 1044 using Meter & Probe	C
	Phenols, monohydric	Documented In-House Method AES 1021 base on "Phenols in waters and effluents, 1981" Method B, (MEWAM)	A
	pH value (pH range 4-10 only)	Documented In-House Method AES 1035 using Meter & Probe	C
	Suspended solids	Documented In-House Method AES 1041 using Gravimetry	C



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TRADE EFFLUENT (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'	
Including Sewage	Silicate	Documented In-House Method AES 1040 using Colourimetry	A
	Chemical Oxygen Demand	Documented In-House Method AES 1029 using Oxidation / Colourimetry	A
POTABLE WATERS (Non-regulatory) and PROCESS WATER (Dialysis Water)	Determination of: Antimony Arsenic Barium Beryllium Cadmium Chromium Copper Lead Mercury Nickel Selenium Silver Thallium Tin Zinc	Documented In House Method AES 1048 using ICP-MS	C
SOILS	Determination of: Antimony Arsenic Cadmium Chromium Cobalt Copper Lead Iron Mercury Nickel Tin Vanadium Zinc	Documented In-House Method AES 1005 using ICP-MS	A



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SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)		
	Total Cyanide	Documented In-House Method AES 1018 based on "Official, Standardised and Recommended Methods of Analysis" (Soc Anal Chem 1973) (P.455)	A
	Moisture content	Documented In-House Method AES 1023 using Gravimetry	C
	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 (pH range 4-10 only)	Documented In-House Method AES 1035 using Meter & Probe	C
END			



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Field of Inspection	Type and Range of Inspection	Methods and Procedures
Permanent Joining	Witness and Approval of Procedures	Documented In House Method MTD PCPNDT 2129
	Witness and Approval of Personnel	Documented In House Method MTD PCPNDT 2129
END		

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
Pressure Equipment Directive 2014/68/EU implemented by; <i>The Pressure Equipment (Safety) Regulations 2016</i>	Directive: Annex I – 3.1.2 <i>Regulations: Schedule 2 paragraph 21.</i>	Categories II III and IV Approval of permanent joining procedures and personnel**	Documented in house procedure MTD PCPNDT 2129

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

END