


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>0102</b>  Accredited to <b>ISO/IEC 17025:2017</b>	<b>ITS Testing Services (UK) Limited (Caleb Brett - Downstream)</b>	
	Issue No: 061 Issue date: 23 February 2021	
	<b>Caleb Brett House</b> Unit A 734 London Road West Thurrock Grays Essex RM20 3NL	<b>Contact: Mrs Claire Johnson</b> Tel: +44 (0)1708 680200 Fax: +44 (0)1708 680247 E-Mail: <a href="mailto:Claire.johnson@intertek.com">Claire.johnson@intertek.com</a> Website: <a href="http://www.intertek.com">www.intertek.com</a>
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
<b>Address</b> <a href="#">West Thurrock Laboratory</a> Caleb Brett House Unit A 734 London Road West Thurrock Grays Essex RM20 3NL	<b>Local contact</b> Mr Gary Ogborn Tel: +44(0)1708 680200 E-mail: <a href="mailto:gary.ogborn@intertek.com">gary.ogborn@intertek.com</a>	Petroleum and Petroleum Products  A
<b>Address</b> <a href="#">Milford Haven Laboratory</a> Unit 15 Waterston Industrial Estate Main Road Waterston Milford Haven SA73 1DP	<b>Local contact</b> Miss Sheena Watson Tel: +44 (0)1646 697675 E-Mail: <a href="mailto:sheena.watson@intertek.com">sheena.watson@intertek.com</a>	Petroleum and Petroleum Products (Aviation fuel)  B
<b>Address</b> <a href="#">Ellesmere Port Laboratory</a> Lakeside Shellway Road Ellesmere Port Cheshire CH65 4LQ	<b>Local contact</b> Mr Gavin Williams Tel: +44 (0)1513 552005 E-Mail: <a href="mailto:gavin.williams@intertek.com">gavin.williams@intertek.com</a>	Petroleum and Petroleum Products  C



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Location details	Activity	Location code
<b>Address</b> <a href="#">Immingham Laboratory</a> West Jetty Immingham Docks Immingham NE Lincolnshire DN40 2NT	<b>Local contact</b> Ms Susan Swan Tel: +44 (0)1469 572353 E-Mail: susan.swan@intertek.com	Petroleum and Petroleum Products Environmental Samples D
<b>Address</b> <a href="#">Teesside Laboratory</a> Seal Sands Middlesbrough Cleveland TS2 1UB	<b>Local contact</b> Mr Anthony Littlefair Tel: +44 (0)1642 540035 E-Mail: anthony.littlefair@intertek.com	Petroleum and Petroleum Products Environmental Samples E
<b>Address</b> <a href="#">South Hook Laboratory</a> South Hook LNG Terminal Company Ltd Dale Road Herbrandston Milford Haven Pembrokeshire SA73 3SU	<b>Local contact</b> Mr A J Walsh Tel: +44 (0)1646 697675 E-Mail: adrian.walsh@intertek.com	Natural Gas Environmental Samples F
<b>Address</b> <a href="#">Grangemouth Laboratory</a> Carron Dock North Grangemouth Falkirk Stirling FK3 8UD	<b>Local contact</b> Mr Ash Morgan Tel: +44 (0) 01324 472332 E-Mail: ashley.morgan@intertek.com	Petroleum and Petroleum Products G
<b>Address</b> <a href="#">Farnborough Laboratory</a> Fuels & Lubricants Centre Building A7, Room 1068 Cody Technology Park Farnborough Hants GU14 0LX	<b>Local contact</b> Mr Andrew Clague +44 (0)1252 397339 E-Mail: andrew.clague@intertek.com	Petroleum and Petroleum Products H
<b>Address</b> <a href="#">Sunbury-on-Thames Laboratory</a> Unit A Shears Way Brooklands Close Sunbury-on-Thames Middlesex TW16 7EE	<b>Local contact</b> Mr Liam Mills Tel: +44 (0)1932 732100 E-Mail: sunbury.enquiries@intertek.com	Petroleum and Petroleum Products Environmental Samples Waters I



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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
<b><u>WEST THURROCK</u></b>			
PETROLEUM AND PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	A
Aviation and distillate fuels	Conductivity	IP 274 ASTM D2624	A
Aviation turbine fuel, kerosene	Burning characteristics - 24 hour method	IP 10	A
	Cleanliness	IP 565 by portable automatic particle counter	A
	Estimation of net heat of combustion	ASTM D3338	A
	Existent gum content - jet evaporation method	IP 540	A
	Fatty acid methyl esters (FAME) content	IP 585 by GC-MS with selective ion monitoring/scan detection	A
	Freezing point	IP 590 (HPLC)	A
	Freezing point	IP 529 ASTM D7153 By automatic laser	A
	Freezing point - manual	ASTM D2386 IP 16	A
	Fuel System Icing Inhibitors (FSII)	ASTM D5006	A



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PETROLEUM AND PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests (cont'd)</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	A
Aviation turbine fuel, kerosene (cont'd)	Knock characteristics - supercharge method	IP 119 ASTM D909	A
	Naphthalene hydrocarbons	ASTM D1840 By ultraviolet spectrophotometry	A
	Oxidation stability - potential residue method	IP 138 ASTM D873	A
	Particulate contaminant (line sampling)	IP 216 ASTM D2276	A
	Particulate contamination - laboratory filtration method	ASTM D5452 MIL-DTL-83133	A
	Smoke point (manual method)	IP 57 ISO 3014	A
	Smoke point (auto and manual)	IP 598 ASTM D1322	A
	Thermal oxidation stability - jet fuel thermal oxidation tester (JFTOT) method	IP 323 ASTM D3241	A
	Total acidity	IP 354 ASTM D3242 By colour indicator titration	A
	Water reaction	IP 289 ASTM D1094	A
	Water separation characteristics	ASTM D3948 Using a portable separometer	A



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PETROLEUM AND PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	A
Crude oil and fuel oil	Sediment content - extraction method	IP 53 ASTM D473 EN ISO 3735	A
Crude petroleum and liquid or solid petroleum products	Density	IP 189 IP 190 EN ISO 3838 By pycnometer	A
Diesel and domestic heating fuels	Cold filter plugging point (CFPP)	IP 309 EN 116	A
Diesel fuel	Ignition quality - cetane engine method	IP 41 ASTM D613 EN ISO 5165	A
	Lubricity assessment	ISO 12156-1 IP 450 Using high frequency reciprocating rig (HFRR)	A
	Manganese	BS EN 16576 and IP623 by ICP	A
Fatty Acid Methyl Esters (FAME) and FAME/Diesel blends	Oxidation stability	IP 574, BS EN 15751 Accelerated oxidation	A



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Fuel oil (cont'd)	Hydrogen Sulphide	IP 570 procedure A Rapid liquid phase extraction	A
Gasoline, petrol	Water and sediment content	ASTM D1796 by centrifuge	A
	Benzene content	IP 429 BS EN 238 By infra red spectrometry	A
	Lead content	ASTM D3237 By atomic absorption spectroscopy (AAS)	A
	Lead content	IP 270 EN ISO 3830	A
	Manganese content	IP 588 EN 16135 ASTM D3831 by AAS	A
	Organic oxygenate compounds and total organically bound oxygen content	IP 466 EN 13132 by Gas Chromatography	A
	Oxidation stability - induction period method	IP 40 ASTM D525 EN ISO 7536	A
	Phosphorus content	ASTM D3231	A



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Lubricating oils (used)	Insolubles (pentane and toluene insolubles)	ASTM D893	A
Lubricating oils (used), base oils	Additive and selected elements, wear metals, and contaminants	ASTM D5185 by ICP-AES	A
Lubricating oils and additives	Sulphated ash	IP 163 ISO 3987	A
	Sulphated ash content	ASTM D874	A
Motor and aviation-type fuels	Knock characteristics - octane number by motor method (MON)	IP 236 ASTM D2700 EN ISO 5163	A
Motor fuels	Knock characteristics - octane number by research method (RON)	IP 237 ASTM D2699 EN ISO 5164	A
Petroleum distillates and aliphatic olefins	Bromine number - electrometric method	IP 130 ASTM D1159 ISO 3839	A
Petroleum oils and synthetic Fluids	Water separability	ASTM D1401	A
Petroleum products	Ash content	IP 4 ASTM D482 ISO 6245	A
	Asphaltenes	IP 143 ASTM D6560	A



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Petroleum products (cont'd)	Base number - Perchloric acid potentiometric titration method	ASTM D2896 By perchloric acid potentiometric titration	A
	Carbon residue - Conradson method	IP 13 ISO 6615 ASTM D189	A
	Carbon residue - micro method	IP 398 ASTM D4530	A
	Carbon residue - Ramsbottom method	IP 14 ASTM D524 ISO 4262	A
	Cloud point	IP 219 EN 23015 ISO 3015 ASTM D2500	A
	Colour - ASTM colour scale	IP 196 ASTM D1500 ISO 2049	A
	Colour - Lovibond tintometer method	IP 17	A
	Colour - Saybolt by automatic tristimulus method	ASTM D6045	A
	Colour - Saybolt chronometer method	ASTM D156	A
	Colour of clear liquids - Platinum-Cobalt scale	ASTM D1209 (modified)	A





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Petroleum products (cont'd)	Corrosiveness to Copper	IP 154 ASTM D130 EN ISO 2160	A
	Coumarin content	IP 374 by fluorimetric and high performance liquid chromatography (HPLC) methods	A
	Density - oscillating U-tube method	ASTM D4052 IP 365 EN ISO 12185	A
	Distillation (at atmospheric pressure)	ASTM D86 IP 123 EN ISO 3405	A
	Distillation (at reduced pressure)	ASTM D1160	A
	Doctor test	IP 30	A
	Dry vapour pressure equivalent (calculated)	IP 394 EN 13016-1	A
	Elemental Analysis: Carbon, Hydrogen and Nitrogen	ASTM D5291	A
	Filter blocking tendency	IP 387 ASTM D2068	A
	Flash and Fire points - Cleveland open cup method	IP 36 EN ISO 2592 ASTM D92	A



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Petroleum products (cont'd)	Flash point - Pensky-Martens closed cup method	IP 34 ASTM D93 EN ISO 2719	A
	Flash/no Flash and Flash point - rapid equilibrium closed cup method	IP 523 EN ISO 3679	A
	Hydrocarbon types - fluorescent indicator adsorption (FIA) method	IP 156 ASTM D1319	A
	Low lead concentration	IP 428, BS EN 237 Atomic Absorption Spectroscopy (AAS)	A
	Nitrogen	ASTM D5762 by boat-inlet chemiluminescence	A
	Pour point	IP 15 ASTM D97 ISO 3016	A
	Quinizarin content - extraction spectrophotometric method	IP 298	A
	Specific energy (calorific value)	IP 12	A
	Sulphur content	IP 336 ISO 8754 ASTM D4294 by energy-dispersive X-ray fluorescence (ED-XRF)	A



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Petroleum products (cont'd)	Sulphur content	IP 490 ISO 20846 ASTM D5453 By ultraviolet fluorescence	A
	Vapour Pressure - mini method	ASTM D5191	A
	Viscosity kinematic	IP 71, Section 1 ASTM D445 EN ISO 3104	A
	Water content	IP 438 EN ISO 12937 by coulometric Karl Fischer titration	A
	Weak and strong acid number	IP 177 ASTM D664 By potentiometric titration	A
Petroleum products - distillate fuels	Free Water and particulate contamination	ASTM D4176 By visual inspection	A
Petroleum products - light and middle distillates	Gum content - jet evaporation method	IP 131 EN ISO 6246 ASTM D381	A
	Hydroperoxide number	ASTM D3703	A
	Thiol (mercaptan) sulphur content - potentiometric method	IP 342 ASTM D3227 ISO 3012	A



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Petroleum products - middle distillate fuels	Ignition delay and derived cetane number	IP 498 EN 15195 ASTM D6890 By combustion in a constant volume chamber	A
	Oxidation stability - accelerated method	IP 388 ASTM D2274 EN ISO 12205	A
	Particulate content - laboratory filtration method	IP 415	A
	Water and sediment content - centrifuge method	ASTM D2709	A
Petroleum products - middle distillates	Aromatic hydrocarbons - high performance liquid chromatography (HPLC) method with refractive index detection method	IP 391 EN 12916 By HPLC with refractive index detection	A
	Cetane index - calculation by the four-variable equation	IP 380 ISO 4264 ASTM D4737	A
	Fatty acid methyl ester (FAME) content	IP579 EN 14078 By infrared spectrometry	A
Petroleum products- middle distillates, diesel fuels and FAME	Total contamination	IP 440 EN 12662 By vacuum and weighing	A



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Petroleum products and bituminous materials	Water content	IP 74 ASTM D95 ISO 3733 By Dean and Stark	A
Petroleum products and hydrocarbon solvents	Aniline point	IP 2 ASTM D611 ISO 2977	A
Petroleum products and lubricants	Acid or base number	IP 139 ASTM D974 ISO 6618 Colour indicator titration	A
Petroleum products and other liquids	Flash point - Abel closed cup method	IP 170 EN ISO 13736	A
Residual fuel oil	Aluminium, silicon, vanadium, nickel, iron, sodium, calcium, zinc and phosphorous	IP 501 By ashing, fusion and ICP-ES	A
	Total sediment content - hot filtration method	IP 375 ASTM D4870 ISO 10307-1	A
	Total sediment content - thermal ageing, chemical ageing	IP 390 ASTM D4870 ISO 10307-2	A
Residual fuels	Cleanliness and compatibility - spot test	ASTM D4740	A



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Bitumen and bituminous binders	Determination of solubility	EN 12592 / IP 47	A
	Determination of needle penetration	IP49 / EN1426	A
	Determination of softening point – ring and ball method	IP58 / EN1427	A
Bitumen and asphalt	Kinematic viscosity	EN 12595IP 319 ASTM D2170	A



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<b><u>MILFORD HAVEN</u></b>			
PETROLEUM AND PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	B
Aviation Turbine Fuel	Total acidity	IP 354, ASTM D3242	B
	Corrosiveness to copper	IP 154, ASTM D130	B
	Colour – Saybolt	ASTM D156	B
	Density and relative density	ASTM D4052, IP 365	B
	Distillation characteristics at atmospheric pressure	IP 123, ASTM D86	B
	Doctor test	IP 30, ASTM D4952	B
	Existent gum - gum extent of aviation turbine fuel	IP 540	B
	Estimation of net heat of combustion	ASTM D3338	B
	Flash point by Abel closed cup	IP 170	B
	Freezing point of aviation fuels	IP 16, ASTM D2386 (manual) IP 529, ASTM D7153 (automatic)	B
	Hydrocarbon types by FIA	IP 156, ASTM D1319	B



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Aviation Turbine Fuel (cont'd)	Jet Fuel Thermal Oxidation Tester (JFTOT) - Thermal oxidation stability of gas turbine fuels	IP 323, ASTM D3241	B
	Mercaptan sulphur	IP 342, ASTM D3227	B
	Naphthalene hydrocarbons in aviation turbine fuels	ASTM D1840	B
	Smoke point – manual only	ASTMD1322, IP 598	B
	Sulphur content	IP 336	B
	Viscosity kinematic	IP 71 Section 1, ASTM D445	B
	Water separation characteristics of aviation fuels (MSEP)	ASTM D3948	B





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<b><u>ELLESMERE PORT</u></b>			
PETROLEUM PRODUCTS, LUBE OILS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	C
	Colour	ASTM D1500	C
	Density	IP 365	C
	Distillation (automatic only)	ASTM D86	C
	Elemental Analysis C, H, N	ASTM D5291	C
	Flash Point (COC)	IP 36	C
	Heat of combustion (gross and net)	IP 12 ASTM D240	C
	Pour Point	IP 15 ASTM D97	C
	Refractive Index	ASTM D1218	C
	RVP (minivap)	ASTM D5191	C
	Sulphur Content	IP 336	C
	Viscosity	IP 71 ASTM D445	C
	Water Content	IP 438	C
Lube oils	Apparent viscosity (Cold Cranking Simulator)	ASTM D5293	C
	Evaporative Loss (Noack)	ASTM D5800	C
Solvents	Distillation (automatic only)	ASTM D1078	C



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<b><u>IMMINGHAM</u></b>			
BIODIESEL, PETROLEUM and PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	D
	Density	IP 365 EN ISO 12185 ASTM D4052	D
	Viscosity	IP 71 ASTM D445 EN ISO 3104	D
	Sulphur Content	IP 490 EN ISO 20846	D
	Iodine Number	EN ISO 14111	D
	Acid Value	EN ISO 14104	D
	Water Content	IP 438 EN ISO 12937	D
Hydrocarbon Solvents	Appearance	In-house method IMM-LAB-SWI-146 based on client method EC-A_A01	D
	Aromatics content	In-house method IMM-LAB-SWI-144 based on client method UV 1 by UV/Vis	D
	Colour - Platinum cobalt Saybolt	ASTM D1209 ASTM D6045	D



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**Issue No:** 061    **Issue date:** 23 February 2021

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BIODIESEL, PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	D
	Distillation at atmospheric pressure	ASTM D86	D
	Distillation range of volatile organic liquids	ASTM D1078	D
	Flash point	ASTM D93 ASTM D56	D
	Refractive index	ASTM D1218	D
	Solvent composition	In-house method IMM-LAB-SWI-126 based on client method GC 3 by GC-FID	D
	Water content of volatile solvents	ASTM D1364	D
TRADE EFFLUENT (to controlled water)	<u>Chemical and Physical Tests</u>		D
	pH	In-house method IMM-LAB-SWI-100 based on APHA 4500-H+	D
	Suspended solids	In-house method IMM-LAB-SWI-101 based on BS EN 872	D



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<b><u>TEESSIDE</u></b>			
PETROLEUM and PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	E
	Cold Filter Plugging Point	IP 309 BS EN 116	E
	Colour Pt-Co (Hazen)	ASTM D5386	E
	Density	ASTM D4052 IP 365 EN ISO 12185	E
	Distillation	ASTM D86 IP 123 EN ISO 3405	E
	Ester Content	EN ISO 14103:2011	E
	Flash Point	ASTM D93 IP 34 EN ISO 2719 Pensky Martens Closed Cup	E
	Lubricity	IP 450 ISO 12156-1:2006	E
	Motor Octane Number (MON)	ASTM D2700 IP 236 EN ISO 5163	E
	Oxidation Stability	BS EN 14112	E



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	E
Petroleum Distillates	Paraffin, naphthene and aromatic hydrocarbon types (PNA)	ASTM 5443	E
	Research Octane Number (RON)	ASTM D2699 IP 237 EN ISO 5164	E
	Sulphur	ASTM D5453 IP 490 EN ISO 20846	E
	Vapour Pressure	ASTM D5191 IP 394 EN 13016	E
	Viscosity	ASTM D445 IP 71 ISO 3104	E
Petroleum Products	Water Content	IP 438 EN ISO 12937	E
Volatile Solvents	Water Content	ASTM D1364	E
Petroleum and Petroleum Products	Water Content	ASTM E203	E
Organic Liquids	Water Content	ASTM E1064	E
FATTY ACID METHYL ESTERS	<u>Chemical Testing</u>		E
	Sodium	BS EN 14108	E
	Potassium	BS EN 14109	E



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ENVIRONMENTAL SAMPLES  Surface water	<u>Chemical Testing</u>  Chemical Oxygen Demand  Suspended Solids  Biochemical Oxygen Demand	  BS ISO 15705  BS EN 872  In-house method TEE-LAB-SOP-12 based on BS EN 1899	E  E  E  E



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<b><u>SOUTH HOOK</u></b>			
NATURAL GAS	<u>Chemical and Physical Tests</u>	In house methods in the series SHT-LAB-SOP-xx and SHT-LAB-TP-xx	F
	Composition	GPA 2261:19 by GC	F
	Incomplete combustion factor and soot index	Calculation from statutory instrument 1996 number 551 gas safety regulations	F
	Moisture dew point	ASTM D5454: 11e1 SHT-LAB-SOP-06	F
	Molecular weight, vapour density, relative vapour density, gross heating value, net heating value, Wobbe Index	ISO 6976:2016 and ISO 6976:2005 (superseded) by calculation	F
	Determination of oxygen present	SHT-LAB-TP-02 by oxygen meter	F
	Determination and speciation of sulphur compounds	ISO 19739:05 by GC	F
NATURAL GAS	<u>Sampling</u>		F
	Spot and composite sampling of Natural Gas during vessel discharges at South Hook LNG Terminal	SHT-LAB-SOP-15	F
TRADE EFFLUENT TO CONTROLLED WATERS	<u>Sampling</u>		F
	Sampling	SHT-LAB-SOP-07	F



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TRADE EFFLUENT TO CONTROLLED WATERS (cont'd)	<u>Chemical and Physical Tests</u>	In house methods in the series SHT-LAB-SOP-xx and SHT-LAB-TP-xx	F
	Free chlorine	SHT-LAB-TP-01 by Hach Test Kit	F
	Nitrates	APHA 4500-NO <sub>3</sub> -B by UV (2019)	F
	pH	BS EN ISO 10523: 2012	F
	Total suspended solids	BS 6068-2.54:05	F
	Turbidity	BS EN ISO 7027-1:2016	F





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<b><u>GRANGEMOUTH</u></b>			
PETROLEUM and PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	G
Crude Oil	Density	IP 365	G
	Water Content	IP 386	G
	Reid Vapour Pressure (RVP)	IP 69	G



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<b><u>FARNBOROUGH</u></b>			
PETROLEUM and PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	H
	Total acid number of oils	SAE ARP 5088	H
	Total acid number of used oils	In-House Documented Procedure FLM 196 using Methrolm 778/794/836/815 (based on SAE ARP 5088)	H
	Total base number of used oils	In-House Documented Procedure FLM 221	H
	Diesel Fuel Diluent in used engine oils	In-House Documented Procedure FRN-LAB-SOP-04 by Gas Chromatography	H
	Water content of used oils	In-House Documented Procedure FLM 198 using Methrolm 774 Karl Fischer (based on ASTM D6304)	H
	Specific gravity of used oils	In-House Documented Procedure FLM 199 using DA500 (based on IP 365)	H
	HIAC particle counting in fluids and lubricants	In-House Documented Procedure FLM 207 using automatic particle counting equipment	H



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	H
	Kinematic viscosity of used oils	In-House Documented Procedure FLM 200 using Automatic Houillon Viscometer (based on ASTM D7279)	H
	Appearance	In-House Documented Procedure FLM 212	H
	Debris analysis	In-House Documented Procedures 114 and 174 using Millipore Filtration, Scanning Electron Microscopy with X-Ray Analysis	H
	Debris analysis	In-House Documented Procedure FLM 210 using Debris Tester MK1	H
	Elemental analysis of used oils including: Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, W, Zn	In-House Documented Procedure FRN-LAB-SOP-15 using Inductively Coupled Plasma (based on ASTM D5185)	H
	Analysis of used oils for: Chlorine Sulphur	In-House Documented Procedures 183 using EDXRF (based on IP 336)	H
	Kinematic Viscosity at 40C, 100C and 100F (37.78C)	ASTM D445 and IP71	H
	Determination of oxidation of used motor oils	DIN 51453	H



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Performance tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	H
	Load carrying capacity test for transmission lubricants (FZG Rig)	CEC-L-07-95	H
	Viscosity shear stability of transmission lubricants (taper roller bearing rig)	CEC-L-45-99	H
	Evaluation of the mechanical shear stability of lubrication oils containing polymers	CEC-L-14-93	H
	Oxidation test for engine oils operating in the presence of biodiesel	CEC-L-109-14	H
AVIATION LUBRICANTS	<u>Physical Tests</u>		H
	Evaluation of coking propensity	SAE ARP 5996 using the Hot Liquid Process Simulator (HLPS) Single Phase Flow Technique	H



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FUELS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	H
	Cloud Point	IP 444	H
	Colour - ASTM Colour	ASTM D6045	H
	Density at 15 °C	IP 365	H
	Aviation Fuel Thermal Oxidation Stability Test	IP 323	H
OILS AND GREASES	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Intertek corporate procedure COR-PR-14 (Management of Change)	H
	Determination of ferromagnetic debris in fluids, lubricants and greases	FLM 31 using pqA	H
	Extreme Pressure Properties of Lubricating Greases	ASTM D2596 by Four Ball Tester	H
	Extreme Pressure and Anti-wear Properties of Lubricating Fluids and Greases (friction measurement not measured)	IP 239 by Four Ball Tester	H



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<b><u>SUNBURY-ON-THAMES</u></b>			
<b>MATERIALS</b>  Materials (non-metallic) for use with drinking water	<u>Chemical Tests</u>		
	Analysis for the purpose of enforcement of the Water Supply (Water Fittings) Regulations 1999 (SI 1999/1148)		I
	Chemical tests	BS 6920:Part 1:2014	I
	Samples for testing	BS 6920:Part 2:Section 2.1:2014	I
	Odour and flavour	BS 6920:Part 2:Section 2.2: Subsection 2.2.1:2000 + A3:2014	I
	Odour and flavour on composite hoses and pipes	BS 6920:Part 2:Section 2.2: Subsection 2.2.2:2000 + A1:2014	I
		BS 6920:Part 2:Section 2.2: Subsection 2.2.3:2000 + A2:2014	I
	Appearance of water	BS 6920:Part 2:Section 2.3:2000 + A1:2014	I
Extraction of metals	BS 6920:Part 2:Section 2.6:2000 + A2:2014	I	
High temperature tests	BS 6920:Part 3:2000	I	



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MATERIALS (cont'd)	<u>Microbiological Tests</u>		I
Materials (non-metallic) for use with drinking water	Analysis for the purpose of enforcement of the Water Supply (Water Fittings) Regulations 1999 (SI 1999/1148)		
	Growth of aquatic microorganisms	BS 6920:Part 2:Section 2.4:2000 + A1:2014	I
	Extraction of substances that may be of concern to public health	BS 6920:Part 2:Section 2.5:2000 + A2:2014	I
Influence of materials on water intended for human consumption - influence due to migration non-metallic and non-cementitious, factory made & site-applied materials	<u>Chemical Tests</u>		
	Chemical tests	BS EN 12873-1:2014 BS EN 12873-2:2005	I
Membranes	Chemical tests	BS EN 12873-4:2006	I



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PETROLEUM and PETROLEUM PRODUCTS	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22	I
	Acidity of petroleum products	Documented In-House Method MT-FLS-06 (Titration)	I
	Additive components in lubricating oils by Inductively Coupled Plasma Atomic Emission Spectrometry	ASTM D4951	I
	Air saturated vapour pressure	IP 394	I
	Aromatic hydrocarbons	IP 391 IP548 Documented In-House Method MT-CMS-33 by LC, IP548 (mod)	I
	Aromatic hydrocarbon types in aviation fuels by HPLC with RI	IP 436 ASTM D6379	I
	Asphaltenes - heptane insolubles	IP 143 ASTM D6560	I
	Base Number Determination by Potentiometric Hydrochloric Acid Titration	ASTM D4739	I
	Determination of base number – Perchloric acid potentiometric titration method	IP276 / ISO 3771	I
	Boiling point distribution of distillates and lube base oils by GC	ASTM D7500	I





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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22 (cont'd)	I
	Boiling point distribution of samples with residues by HT GC	ASTM D7169	I
	Boiling range of products	IP 406 ASTM D2887 IP 480 IP 507 IP 545 IP 601	I
	Carbon residue of petroleum products (micro method)	ASTM D4530	I
	Characteristic Groups in Rubber Extender and Processing Oils and Other Petroleum-Derived Oils by the Clay-Gel Absorption Chromatographic Method	ASTM D2007	I
	Cloud point of petroleum oils: (Auto) (Manual) (Manual)	ASTM D5771 ASTM D2500 IP 219	I
	Colour (ASTM rating)	ASTM D1500	I
	Colour (Saybolt) of Aviation Turbine Fuels	ASTM D156	I
	Copper corrosion from petroleum products by the copper strip tarnish test	IP 154 ASTM D130 ISO 2160	I



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22 (cont'd)	I
	Crude oil - heptane insolubles	IP 143 (modified)	I
	Density and relative density of liquids by digital density meter	IP 365 ASTM D4052	I
	Distillation of crude petroleum using Fischer 800 distillation units	ASTM D2892 (modified)	I
	Distillation of petroleum products	ASTM D86	I
	Electrical conductivity of aviation and distillate fuels containing a static dissipater additive	IP 274 ASTM D2624	I
	Existent gum in aviation fuels by jet evaporation	IP 540	I
	Flash point by Pensky-Martens closed tester	IP 34 ASTM D93	I



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22 (cont'd)	I
	Flash point of petroleum products including Fatty Acid Methyl Esters	IP 523 ISO 3679	I
	Freezing point of aviation fuels (Manual Methods)	IP 16 ASTM D2386	I
	Hydrocarbon types and oxygenates in petrol-multi dimensional gas chromatographic method	BS EN ISO 22854	I
	Individual components in spark ignition engine fuels by 100 m Capillary high resolution Gas chromatography.	ASTM D6729	I
	Kinematic viscosity of transparent and opaque liquids and the calculation of dynamic viscosity	IP 71 Section 1 ASTM D445 IP71 Section 2 ASTM D446	I
	Low Temperature Viscosity of lubricants measured by Brookfield Viscometer	ASTM D2983	I
	Mercaptan sulphur in gasoline, kerosene, aviation turbine and distillate fuels (potentiometric method)	IP 342 ASTM D3227	I



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22 (cont'd)	I
	Multielement Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D5185	I
	Naphthalene hydrocarbons in aviation turbine fuels by UV spectrophotometry	ASTM D1840	I
	Organic halogen content - Oxidative microcoulometric method	IP510 (mod) with associated in-house procedure TP-LP-ELE-111	I
	Oxidation induction time of a lubricating oil by Pressure Differential Scanning Calorimetry (PDSC)	CEC L-85-99	I
	Polycyclic aromatics in base oils by dimethylsulphoxide-refractive index method	Documented In-House Method MT-CMS-07	I
	Pour point: (Manual) (Auto)	ASTM D97 ASTM D5950	I



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22 (cont'd)	I
	Quantitative analysis for:  - Chlorine - Nickel, Vanadium and Sulphur	Documented In-House Methods using Wavelength Dispersive X-ray Fluorescence MT-ELE-06 MT-ELE-05	I
	Qualitative and quantitative analysis to determine composition: Aliphatic hydrocarbons Oxygenated compounds	Documented In-House Method using gas chromatography techniques including capillary and multicolumn systems, on-column injection and Flame Ionisation MT-CMS-03	I
	Refractive index of hydrocarbon liquids	Documented In-House Method MT-COP-02	I
	Refractive Index of hydrocarbon liquids	ASTM D1218	I
	Saturated aromatic and polar compounds by TLC with FI detection	IP 469	I
	Smoke point of aviation turbine fuels	IP 57 IP 598 (manual) ASTM D1322	I



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22 (cont'd)	I
	Sulphur	ASTM D2622	I
	TBN of petroleum products by potentiometric percholoric acid titration	IP 276/95 (2004) modified IP 276/95 (2004) supercededASTM D2896-01 superceded	I
	Total acidity in aviation turbine fuel	IP 354 ASTM D3242	I
	Total existent sediment	IP 375 by filtration	I
	Water content - distillation method	ASTM D95	I
	Wax content of petroleum products	Documented In-House Method MT-FLS-07 by NMR	I
	Yield stress and apparent viscosity of engine oils at low temperature (MRV)	ASTM D4684	I



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BURNER FUELS DERIVED FROM WASTE MINERAL OIL	<u>Chemical Tests</u>	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented local procedure STC-LAB-PR-22	I
	Mercury	IP 594 by combustion, gold trap, cold vapour AAS	I
	Metals: - lead, nickel, chromium, copper, zinc, arsenic, cadmium, thallium, antimony, cobalt, manganese and vanadium	IP 592 by ICPMS	I
ENVIRONMENTAL SAMPLES	<u>Chemical Tests</u>		I
Prepared Leachates	Organic substances by GC/MS	BS EN 15768:2015 (Influence of materials on water intended for human consumption. GC-MS identification of water leachable organic substances)	I



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Accredited to  
ISO/IEC 17025:2017

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

**ITS Testing Services (UK) Limited (Caleb Brett - Downstream)**  
**Issue No: 061    Issue date: 23 February 2021**

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PETROLEUM PRODUCTS, CHEMICALS, CATALYSTS, LIQUIDS and SOLIDS	<u>Chemical Tests</u>		I
Organic Samples	Quantitative analysis for:  Aluminium Barium Boron Calcium Chromium Copper Iron Lead Magnesium Manganese Molybdenum Nickel Phosphorus Potassium Silicon Silver Sodium Strontium Sulphur Tin Titanium Vanadium Zinc	Documented In-House Methods using Inductively Coupled Plasma Optical Emission Spectrometry MT-ELE-01	I
	Quantitative analysis for: Carbon Hydrogen Nitrogen	Documented In-House Methods using High Temperature Combustion, Oxidative Combustion, Microcoulometry, UV Fluorescence, Chemiluminescence MT-ELE-12 (N) and MT-ELE-13 (C, H, N)	I





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DRINKING WATER (non regulatory), SALINE WATER and TRADE EFFLUENT	<u>Chemical and Physical Tests</u>	Documented In-House Methods:	I
	Ammoniacal nitrogen	MT-PSS-07 using Dr Lange Test Kit	I
	Anions: Fluoride Chloride Bromide Nitrate Nitrite Sulphate Phosphate	MT-PSS-28 using ion chromatography	I
DRINKING WATER (non regulatory)	<u>Chemical Tests</u>		I
	Metals: Aluminium Antimony Arsenic Boron Cadmium Chromium Iron Lead Manganese Mercury Nickel Selenium	Documented In-House Method MT-ELE-23 by ICP-MS (Part of BS 6920: Part 2 Metals analysis)	I
SALINE WATER	<u>Chemical Tests</u>		I
	Analysis of Metals: Arsenic Cadmium Chromium Copper Iron Mercury Nickel Lead Thallium Zinc	Documented In-House Method MT-ELE-20 by ICP-MS	I
END			