


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0101</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>ITS Testing Services (UK) Limited (Aberdeen Laboratory)</b></p> <p>Issue No: 048    Issue date: 15 March 2024</p>	
	<p>Exploration Drive Aberdeen Science and Energy Park Bridge of Don Aberdeen AB23 8HZ</p>	<p>Contact: Mr Ross Hyland Tel: +44 (0)1224 708500 Fax: +44 (0)1224 296302 E-Mail: ross.hyland@intertek.com Website: www.intertek.com</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PETROLEUM and PETROLEUM PRODUCTS	<p><u>Chemical and Physical Tests</u></p> <p>Allocation analysis</p> <ul style="list-style-type: none"> <li>- Boiling Range Distribution of the C<sub>6</sub> + Fraction of NGL Samples</li> <li>- Compositional Analysis of NGL Samples</li> <li>- Direct Measurement of N<sub>2</sub>, CO<sub>2</sub> and C<sub>1</sub> - C<sub>6</sub> from Pressurised Sample Cylinders</li> <li>- Gas/Liquid Separation of Forties Pipeline Field Samples</li> </ul>	<p>Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).</p> <p>Documented In-House Methods, as listed below in the series CBA-00 MOD - Modified.</p> <p>Forties System Allocation Schedule of Analysis Manual</p> <p>NGL-2 encompassing IP406 (modified)</p> <p>NGL-3 encompassing IP345 (as modified in NGL-3)</p> <p>CRUDE-3 encompassing IP189 (modified), IP344/88 (obsolete) (modified)</p> <p>CRUDE-3 encompassing IP345 (as modified in NGL-3), IP189 (modified), IP344 (modified)</p>



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd) <ul style="list-style-type: none"> <li>- Preparation of Forties Pipeline Field Samples</li> <li>- Sulphur Content of Forties Field 350 + Residue Samples</li> <li>- Water Content of Forties Pipeline Fields - Dissociated Gas</li> <li>- Water Content of Forties Pipeline Field Samples</li> <li>- Water Content of Forties Pipeline Field Samples (Overfilled Vessels)</li> <li>Aniline Point</li> <li>Ash from petroleum product</li> </ul>	<p>Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).</p> <p>Documented In-House Methods, as listed below in the series CBA-00 MOD - Modified.</p> <p>CRUDE-1, NGL-1</p> <p>CRUDE-5 encompassing the following: ASTM D2892 (modified) ASTM D5443 ASTM D2503 ASTM D4052 (modified) ASTM D2887 (modified) ASTM D1160 (modified) and ASTM D5236 IP190 (modified) IP336 (modified) IP71- ASTM D445</p> <p>CRUDE-4 encompassing IP386 (modified) and ASTM D4807 (modified)</p> <p>CRUDE-2, NGL-4 encompassing IP386 (modified) and ASTM D4807 (modified)</p> <p>CRUDE-4 encompassing IP386 (modified) and ASTM D4807 (modified)</p> <p>IP 2 ASTM D611</p> <p>IP 4 ASTM D482</p>



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)  Asphaltenes  Basic Nitrogen  Bitumen softening point  Cetane Index, calculated  Cloud point  Cold filter plugging point  Composition of natural gas	Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).  Documented In-House Methods, as listed below in the series CBA-00 MOD - Modified.  IP 143 ASTM D6560  CBA 73  BS-2000-58  IP 380 ASTM D4737  IP 219 ASTM D2500  IP 309  IP 345/80 (obsolete)



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).  Documented In-House Methods, as listed below in the series CBA-00 MOD - Modified.
	Density, relative	IP 160 ASTM D1298
	Density, API gravity	IP 365
	Detection of copper corrosion	IP 154 ASTM D130
	Distillation	IP 123 ASTM D5236 ASTM D2892
	Flash Gases	CBA-78
	PMCC Flash point	IP 34 ASTM D93
	COC Flash point	IP 36 (modified) ASTM D92 (modified)
	Flash Point 50 to 200°C	IP 523 Rapid equilibrium closed cup
	Freezing point	IP 16 ASTM D2386
Fuel dilution	CBA-12, estimation by flash point characteristics	
Hydrocarbon types	IP 156 ASTM D1319	



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)  Hydrogen sulphide and mercaptan sulphur content  Insolubles  Light hydrocarbons in stabilised crude oils  Molecular weight, average  Total acid number  Total base number  Particle size and distribution  Pour point  Pour point of Crude Oil  Pressurised Gases  Salts content, total  Sediment	Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).  Documented In-House Methods, as listed below in the series CBA-00 MOD - Modified  UOP 163 and UOP 163(MOD)  CBA-11  IP 344 (modified)  CBA-2  IP 177 ASTM D664  ASTM D2896  CBA-13 using automatic particle counter  IP 15 ASTM D97  ASTM D5853  CBA-77  IP 265  IP 53 ASTM D473 ASTM D4807 (modified)



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PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)  Smoke point  Sulphur  Vapour pressure  Viscosity  Kinematic viscosity of transparent and opaque liquids  Viscosity index  Water  Wax content  Paraffin wax content of petroleum oils and asphalts	Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).  Documented In-House Methods, as listed below in the series CBA-00 MOD - Modified  IP 57 ASTM D1322  IP 336  IP 69 Reid Method  IP 71/Section 1 ASTM D445  ASTM D7279 by Houillon Viscometer  IP 226 ASTM D2270  IP 386 ASTM D4928 CBA-6  CBA-4 using Soxhlet Extraction technique  UOP 46



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<p>PETROLEUM and PETROLEUM PRODUCTS (cont'd)</p> <p>Pressurised Hydrocarbon Fluids</p> <p>WATERS Saline waters Drinking waters Process Waters</p>	<p><u>Chemical and Physical Tests</u> (cont'd)</p> <p>N<sub>2</sub>, CO<sub>2</sub> C<sub>1</sub>-C<sub>5</sub> C<sub>6+</sub> Dry e C<sub>1</sub>-C<sub>6</sub> C<sub>1</sub>-C<sub>7</sub> C<sub>7+</sub> C<sub>8+</sub> SG cut % weight dis.cuts mwt cut S, V</p> <p><u>Chemical and Physical Tests</u></p> <p>Alkalinity</p> <p>Anions:</p> <ul style="list-style-type: none"> <li>- Bromide, Chloride, Fluoride, Nitrite, Nitrate, Phosphate, Sulphate</li> <li>- Chloride</li> </ul> <p>Elemental analysis: Al, B, Ba, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Si, Sr, Zn</p>	<p>Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).</p> <p>Documented In-House Methods, as listed below in the series CBA-00 MOD - Modified.</p> <p>PT-5 using Near Infrared unit</p> <p>API RP45, 81</p> <p>CBA-56 using ion chromatography</p> <p>CBA-69</p> <p>CBA-67 by ICP-OES</p>



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WATERS Trade effluent (to sewer or controlled water)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope to allow updated standard test methods (already on the schedule of accreditation) to be introduced into the lab at the date of issue in a controlled manner following documented in house procedure COR-PR-14 (Management of Change).  Documented In-House Methods, as listed below in the series CBA-00 SVTA-000, MOD - Modified.
	Oil in Water  Particulate matter  Physical properties: pH Conductivity/Resistivity	ISO 9377-2 (modified) by Gas Chromatography  CBA-58 [Modification of ASTM]  ASTM D1293 ASTM D1125-A (modified through work instruction SWI 53)
WATERS Drinking waters	<u>Microbiological Tests</u>	Documented In-House Methods based on The Microbiology of Drinking Water (MDW), Environment Agency
	Enumeration:  Total viable count at 22 °C and 37 °C	CML-LAB-TP-01 by pour plate based on MDW, Part 7, 2020
	Coliforms, confirmed <i>Escherichia coli</i> , confirmed  Identification and enumeration:  <i>Legionella</i> spp <i>Legionella pneumophila</i> serogroups 1 and 2-14	CML-LAB-TP-04 by MPN using Colilert based on MDW, Part 4, 2016  CML-LAB-TP-03 based on BS 6068 Section 4.12:1998 (ISO11731:1998 - Withdrawn)





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WATERS  Drinking waters	<u>Microbiological Tests (cont'd)</u>  Enumeration:  Presumptive enterococci	Documented In-House Methods based on The Microbiology of Drinking Water (MDW), Environment Agency  CML-LAB-TP-02 by filtration membrane method, based on MDW, Part 5, 2012

END