

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0101

Accredited to
ISO/IEC 17025:2017

ITS Testing Services (UK) Limited (Aberdeen Laboratory)

Issue No: 046 Issue date: 28 January 2021

Exploration Drive
Aberdeen Science and Energy Park
Bridge of Don
Aberdeen
AB23 8HZ

Contact: Mr Colin Stewart
Tel: +44 (0)1224 708500
Fax: +44 (0)1224 296302
E-Mail: colin.stewart@intertek.com
Website: www.intertek.com

Testing performed at the above address only

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"> - Boiling Range Distribution of the C₆ + Fraction of NGL Samples - Compositional Analysis of NGL Samples - Direct Measurement of N₂, CO₂ and C₁ - C₆ from Pressurised Sample Cylinders - Gas/Liquid Separation of Forties Pipeline Field Samples 	<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>



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)
Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PETROLEUM and PETROLEUM PRODUCTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd) <ul style="list-style-type: none"> - Preparation of Forties Pipeline Field Samples - Sulphur Content of Forties Field 350 + Residue Samples - Water Content of Forties Pipeline Fields - Dissociated Gas - Water Content of Forties Pipeline Field Samples - Water Content of Forties Pipeline Field Samples (Overfilled Vessels) Aniline Point Ash from petroleum product 	<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>



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)
Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 Conradson Carbon residue	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) IP 13 ASTM D189



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)
Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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
Hydrocarbon types	IP 156 ASTM D1319	



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)
Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 103 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)



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)

Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 (modified) by Houillon Viscometer IP 226 ASTM D2270 IP 386 ASTM D4928 CBA-6 CBA-4 using Soxhlet Extraction technique UOP 46



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)
Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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.
Pressurised Hydrocarbon Fluids	N ₂ , CO ₂ C ₁ -C ₅ C ₆ + Dry e C ₁ -C ₆ C ₁ -C ₇ C ₇ + C ₈ + SG cut % weight dis.cuts mwt cut S, V	PT-5 using Near Infrared unit
WATERS Saline waters Drinking waters Process Waters	<u>Chemical and Physical Tests</u> Alkalinity Anions: - Bromide, Chloride, Fluoride, Nitrite, Nitrate, Phosphate, Sulphate - Chloride Elemental analysis: Al, B, Ba, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Si, Sr, V, Zn	API RP45, 81 CBA-56 using ion chromatography CBA-69 CBA-67 by ICP-OES



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)
Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>WATERS Trade effluent (to sewer or controlled water)</p> <p>WATERS Drinking waters</p>	<p><u>Chemical and Physical Tests</u> (cont'd)</p> <p>Oil in Water</p> <p>Particulate matter</p> <p>Physical properties: pH Conductivity/Resistivity</p> <p><u>Microbiological Tests</u></p> <p>Enumeration:</p> <p>Total viable count at 22 °C and 37 °C</p> <p>Coliforms, confirmed <i>Escherichia coli</i>, confirmed</p> <p>Identification and enumeration:</p> <p><i>Legionella</i> spp <i>Legionella pneumophila</i> serogroups 1 and 2-14</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 SVTA-000, MOD - Modified.</p> <p>ISO 9377-2 (modified) by Gas Chromatography</p> <p>CBA-58 [Modification of ASTM]</p> <p>ASTM D1293 ASTM D1125-A (modified through work instruction SWI 53)</p> <p>Documented In-House Methods based on The Microbiology of Drinking Water (MDW), Environment Agency</p> <p>CML-LAB-TP-01 by pour plate based on MDW, Part 7, 2020</p> <p>CML-LAB-TP-04 by MPN using Colilert based on MDW, Part 4, 2016</p> <p>CML-LAB-TP-03 based on BS 6068 Section 4.12:1998 (ISO11731:1998 - Withdrawn)</p>



0101
Accredited to
ISO/IEC 17025:2017

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

ITS Testing Services (UK) Limited
(Aberdeen Laboratory)
Issue No: 046 Issue date: 28 January 2021

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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