

10.4.1 Schedule of Accreditation

Issue No: 1/ Issue Date: 30/08/2015
 Accreditation Manager: Brahim HOULA



GEO-CHEM Middle East Laboratory No. ATL0015

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International Standard ISO/IEC 17025:2005, “General requirements for the competence of testing and calibration laboratories”

GEO-CHEM Middle East Laboratory	
Issue No: 1	Issue Date: 30/08/2015
Address. Geochem Middle East, P.O.Box 2209, Technopark, South Freezone, Dubai, UAE	Contact: Anandaraj Nadarajan Tel: +97148867400 Fax: +97148867401 Email: anandraj@geochem.ae Web Address: www.geochem.ae

Locations where testing activities covered by the above Accreditation Standard are undertaken

1- **address:** Geochem Middle East, P.O.Box 2209, Technopark, South Freezone, Dubai, UAE

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GAC



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TESTING
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No. ATL0015

For the following scope:

Scope:

GAC fields

7 Chemical Testing

7.16 Fuels

7.17 Lubricants

7.22 Trace analyses in petroleum products

7.66 Waters

7.70 Gases and aerosols

8 Biological Testing

8.11 Microbiological tests on foods

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Scope details are as follows:

From the assessment report

Materials/products tested	Types of test properties measured/range of measurement	Standard specifications/ techniques used	Description of equipment used
Chemical Parameters			
Transformer Oil	Kinematic viscosity	ASTM D 445	Viscometer
	Sulphur in Petroleum (X ray)	ASTM D 4294	XRF
	Pour Point	ASTM D 97	Pour point bath
	Flash Point (Pensky- Martens) Closed cup Tester	ASTM D 93	Flashpoint tester
	Density and Relative Density of Liquid	ASTM D 4052	Digital Density meter

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	Interfacial Tension of Oil against water	ASTM D 971	FT tester
	Corrosive Sulfur	ASTM D 1275	Oven, Copper strip
	Specific Resistance (Resistivity)	ASTM D 1169	Baur Oiltester
	ASTM Colour	ASTM D 1500	ASTM Colour, Lovibond
	Dissipation Factor	ASTMD 924	Baur Oil tester
	Acid and Base Number	ASTM D 974	Titration
	Sludge and Sediment	EC 61125	Centrifuge
	Oxidation Stability	IEC 61125	Stability tester
	Water Content KF	IEC 60814	Karl Fischer

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	Dielectric Dissipation Factor	IEC 60247	Baur Oiltester
	Breakdown Voltage	EC 60156	BDV Analyser
	Anti-Oxidant Additives	IEC 60666	FTIR
	Furanic Compounds (HPLC)	ASTM D 5837	HPLC
	PCB	ASTM D 4059	Gas Chromatograph
	Gases Dissolved	ASTM D 3612 C	Gas Chromatograph, Head Space
Gas	Analysis of Natural Gas	ASTM D 1945	Gas Chromatograph
	Analysis of Natural Gas	GPA 2286	Gas Chromatograph

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Lubricant Oil	Kinematic Viscosity@40°C	ASTM D 445	Viscometer
	Kinematic Viscosity@100°C	ASTM D 445	Viscometer
	Flash Point	ASTM D 92	Flashpoint tester
	Flash Point	ASTM D 93	Flashpoint tester
	Flash Point	ASTM D 3828	Seta Flashpoint
	Wear Metals	ASTM D 5185	ICP-OES

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	Insoluble	ASTM D 893	Centrifuge
	Particle Count	ISO 4406	Particle Analyser
	Total Acid Number	ASTM D974	Titration
	Total Base Number	ASTM D 2896	Titroprocessor
	Water Content	ASTM D 95	Distillation apparatus.
	Water Content	ASTM D 6304	Karl Fischer

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Aviation Fuel	Visual appearance	Visual	
	Color Saybolt	ASTM D 156	Saybolt Colour equipmen
	Color	ASTM D 6045	Lovibond
	Particulate contamination	ASTM D 5452	Filtration apparatus
	Particulate 4µm (c) 6µm (c) 14µm (c) 21µm (c) 25µm (c) 30µm (c)	I P 564	Particulate Analyser
	Total Acidity	ASTM D 3242	Titrat ion

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	Aromatics	ASTM D 1319	FIA apparatus
	Total Sulfur	ASTM D 4294	XRF
	Mercaptan Sulfur	ASTM D 3227	Titroprocessor
	Doctor Test	ASTM D 4952	-

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	Distillation BP 10% Volume @°C 50% Volume @°C 90% Volume @°C End point @°C Residue % Vol Loss % Vol	ASTM D 86	Distillation apparatus
	Flash point	IP 170	Abel Flashpoint tester
	Density @ 15°C kg/M3 (Vac)	ASTM D 1298	Hydrometer
	Density @ 15°C kg/M3 (Vac)	ASTM D 4052	Digital Density Meter

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	Freezing point	ASTM D 2386	Freezing point apparatus.
	Viscosity at -20°C, cSt (mm ² /s)	ASTM D 445	Viscometer
	Specific Energy, net MJ/kg	ASTM D 3338	-
	Smoke Point, mm	ASTM D 1322	Smoke point tester
	Naphthalenes, % vol	ASTM D 1840	Spectrophotometer
	Corr. Copper Strip Classification	ASTM D 130	Bath and copper strip
	Thermal Stability (JFTOT) control Control Temp	ASTM D 3241	JFTOT analyser
	Filter pressure differential	ASTM D 3241	JFTOT analyser

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		ASTM D 3241	JFTOT analyser
	Existent Gum mg/100 ml	IP 540	Bath
	Microseparator(MS EP} ,rating	ASTM D 3948	WISM
	Electrical Conductivity/ps/m	ASTM D 2624	Conductivity meter
Diesel (Gas Oil}	Appearance	Visual	-
	Colour ASTM	ASTM D-1500	ASTM Colour Lovibond
	Ash	ASTM D-482	Weighing Balance, Furnace
	Calorific value	ASTM D-4868	-
	Acid Number-Strong Acid Number- Total	ASTM D-974	Titration

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	Cetane Index	ASTM 0-976, ASTM D-4737	-
	Copper Strip Corrosion, 3 hrs. 100°C	ASTM D-130	Bath and copper strip
	Density @ 15 °C	ASTM D-1298	Hydrometer
	Density @ 15 °C	ASTM D-4052	Digital Density Meter
	Distillation	ASTM D-86	Distillation Apparatus
	Flash point, PMCC	ASTM D-93	Flash point tester
	Pour point	ASTM D-97	Pour point bath
	Cloud point	ASTM D-2500	Pour point bath

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	CFPP	ASTM D 6371, IP 309	CFPP analyser
	Sediment and Water	ASTM D-2709	Centrifuge
	Sulphur, total	ASTM D-5453	Elemental Analyser
	Viscosity @40 °C	ASTM D-445	Viscometer
	Lubricity, HFRR	ASTM D-6079	HFRR analyser
	Oxidation Stability	ASTM D-2274	Stability tester
	Conductivity @20 °C	ASTM D-2624	Conductivity meter
Waste water	pH	APHA 4500H+B	pH meter
	Total Dissolved Solids	APHA 2540C	Weighing balance, oven

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	Total Suspended Solids	APHA 2540 D	Weighing balance, oven
	Chemical Oxygen Demand	APHA 5220 B APHA 5220 D	COD apparatus HACH Reactor
	Biological Oxygen Demand	APHA 5210 B	Incubator
	Oil & Grease	APHA 5520 B	Bent Distillation apparatus
		Metals	ICP-OES
	Copper	APHA 31208	
	Cadmium	APHA 31208	
	Zinc	APHA 31208	
	Nickel	APHA 31208	

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	Chromium	APHA 31208	
	Lead	APHA 31208	
	Cobalt	APHA 31208	
	Manganese	APHA 3120B	
	Silver	APHA 31208	
	Iron	APHA 3120B	
Potable Water/Drinking Water	pH	APHA 4500H+B	pH meter
	Conductivity	APHA 2510B	Conductivity meter
	Carbonate	APHA 2320B	Titration

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Date: 01 August 2013

Approved by: Saud Rashed Alaskar

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	Bicarbonate	APHA 2320B	Titration
	Chloride	APHA 4500Cr.B	Titration
	Chloride	APHA 41108	Ion Chromatography
	Calcium	APHA 3500CaB	Titration
	Calcium	APHA 31208	ICP
	Magnesium	APHA 3500Mg.B	Titration
	Magnesium	APHA 31208	ICP
	Total Dissolved Solids	APHA 2540C	Weighing balance, oven

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	Sulphate	APHA 4500 so/-c	Gravimeter
	Sulphate	APHA 41108	Ion Chromatography
	Nitrate	APHA 4500 Nots	Spectrophotometer
	Flouride	APHA 4500FD	Spectrophotometer
	Iron	APHA 31208	ICP
	Potassium	APHA 31208	ICP
	Sodium	APHA 31208	ICP
	Bromide	USEPA 300.1	Ion Chromatography

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	Bromate	USEPA 300.1	Ion Chromatography
	Turbidity	APHA 2130B	Turbidity meter
Swimming pool water/Waste water/Potable Water/Orinking Water	HPC	APHA 92150	Incubator, Filtration unit.
	Total Coliforms	APHA 9222 B	Incubator, Filtration unit.
	E.coli	APHA 9222 B	Incubator, Filtration unit.
	Pseudomonas aeruginosa	APHA 9213 E	Incubator, Filtration unit.
	Fecal streptococcus	APHA 9230 C	Incubator, Filtration unit.
	Fecal coliform	APHA 9222 D	Incubator, Filtration unit, water bath

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	Legionella	APHA 9260 J/ ISO 11731	Incubator, Filtration unit, water bath
Food			
Food	TPC	USFDA Chapter 3	Weighing balance, Stomacher, incubator
	E-coli	USFDA Chapter 4	Weighing balance, Stomacher, incubator
	E-coli0157	ELISA KIT method	Incubator
	Yeast & Mold	USFDA Chapter 18	Weighing balance, Stomacher, incubator
	Colforms	USFDA Chapter 4	Weighing balance, Stomacher, incubator
	Salmonella	USFDA Chapter 5	Weighing balance, Stomacher, incubator

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	Vibrio parahaemolyticus	USFDA Chapter 9	Weighing balance, Stomacher, incubator
	Listeria monocytogenes	CCFRA 3.2.1	Weighing balance, Stomacher, incubator
	Bacillus cereus	USFDA Chapter 14	Weighing balance, Stomacher, incubator
	Staphylococcus aureus	USFDA Chapter 12	Weighing balance, Stomacher, incubator

END

GEO-CHEM Middle East Laboratory

is recorded as issuing GAC accredited testing laboratory to organizations in the countries listed below. This list is current at the time of issue of this schedule.

United Arab Emirates	Bahrain	Saudi Arabia	Oman	Qatar	Kuwait	Yemen