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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: 03 Issue Date: 26 September 2018			
Address. Geochem Middle East, P.O. Box 2209, National Industries Park, South Freezone, Dubai, UAE	Contact: Mr. Pradeesh Pradeep Tel: +97148867400 Fax: +97148867401 Email: pradeesh.pradeep@geochemglobal.com 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, National Industries Park, South Freezone, Dubai, UAE

For the following scope:

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Scope:

7 Chemical Testing

7.21 Miscellaneous petroleum products7.66 Waters

8 Biological Testing

8.11 Microbiological tests on foods

8.18 Microbiological tests for monitoring defined environments

Scope details are as follows:

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TEST CATEGORY	ITEMS, MATERIALS	SPECIFIC TESTS / PARAMETERS	SPECIFICATION, STANDARD TEST METHOD	
	OR PRODUCTS TESTED	OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	OR TECHNIQUE USED	
		Heterotrophic Plate Counts (HPC)	APHA 9215 D & B, 23 rd Ed. 2017	
		Enumeration of Total Coliforms	APHA 9222 B, 23 rd Ed. 2017	
	Drinking Water/Water/	Enumeration of E. coli	APHA 9222 B, 23 rd Ed. 2017	
	Wastewater	Enumeration of Pseudomonas aeruginosa	APHA 9213 E, 23 rd Ed. 2017	
	Clean & Unclean waters	Enumeration of Fecal streptococcus	APHA 9230 C, 23 rd Ed. 2017	
	Cican & Oncican waters	Enumeration of Legionella	APHA 9260 J 23 rd Ed. 2017/	
		Litameration of Legionella	ISO 11731-2017	
		Enumeration of Fecal coliform	APHA 9222 D, 23 rd Ed. 2017	
		TPC (Pour plate technique)	USFDA BAM Chapter 3: 2001 /	
0.01		Tre (rout plate technique)	CCFRA 1.1.1:2007	
Microbiological Testing		Enumeration of Coliforms &E-coli (MPN & Solid medium method)	USFDA BAM Chapter 4 :2017	
		Detection of E-coli 0157: H7	GC-SOP-180 (Neogen Reveal Kit)	
		Yeast & Mold (Spread plate technique)	USFDA BAM Chapter 18: 2001	
	Food (including dairy foods)	Detection of Salmonella	USFDA BAM Chapter 5: 2018	
		Detection of Vibrio parahaemolyticus	USFDA BAM Chapter 9: 2004	
		Enumeration of Listeria monocytogenes	CCFRA 3.2.1 : 2007 & 3.2.7:2007	
		Detection of Listeria monocytogenes	CCFRA 3.2.4 : 2007 & 3.2.7:2007	
		Enumeration of Bacillus cereus	USFDA BAM Chapter 14: 2012	
		Enumeration of Staphylococcus aureus	USFDA BAM Chapter 12: 2016	
	Swab (Hand & Surfaces)	Detection of Staphylococcus aureus	GC-SOP-192	

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		Detection of Total coliforms	
		Detection of E. coli	
		pH	APHA 4500H+B, 23 rd Ed. 2017
		Total Suspended Solids	APHA 2540 D, 23 rd Ed. 2017
		Total Dissolved Solids	APHA 2540C, 23 rd Ed. 2017
		Oil & Grease	APHA 5520 B, 23 rd Ed. 2017
	Waste Water/ Irrigation Water	Chemical Oxygen Demand	APHA 5220 B, 23 rd Ed. 2017
		Chemical Oxygen Demand	APHA 5220 D, 23 rd Ed. 2017
		Biological Oxygen Demand	APHA 5210 B, 23 rd Ed. 2017
Chemical Testing (Water Chemistry)		Metals: Copper, Cadmium, Zinc, Nickel, Chromium, Lead, Cobalt, Manganese, Silver, Iron	APHA 3120B/ APHA 3030F, 23 rd Ed. 2017
	Drinking Water /Portable	pH	APHA 4500H ⁺ B, 23 rd Ed. 2017
		Conductivity	APHA 2510B, 23 rd Ed. 2017
		Turbidity	APHA 2130B, 23 rd Ed. 2017
		Total Dissolved Solids	APHA 2540C, 23 rd Ed. 2017
		Chloride	APHA 4500Cl ⁻ . B, 23 rd Ed. 2017
		Sulphate	APHA 4500 SO ₄ ² -C, 23 rd Ed. 2017
		Nitrate	APHA 4500 NO ₃ ²⁻ B, 23 rd Ed. 2017
	water	Fluoride	APHA 4500F ⁻ D, 23 rd Ed. 2017
		Carbonate	APHA 2320B, 23 rd Ed. 2017
		Bicarbonate	APHA 2320B, 23 rd Ed. 2017
		Total Alkalinity	APHA 2320 B, 23 rd Ed. 2017
		Calcium	APHA 3500Ca B, 23 rd Ed. 2017
		Magnésium	APHA 3500Mg B, 23 rd Ed. 2017

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		Total Hardness	APHA 2340 B, 23 rd Ed. 2017	
		Chloride	APHA 4110B, 23 rd Ed. 2017	
		Sulphate	APHA 4110B, 23 rd Ed. 2017	
		Bromide	US EPA 300.1	
		Bromate	US EPA 300.1	
		Calcium		
		Iron	APHA 3120B/ APHA 3030 F, 23 rd Ed. 2017	
		Magnésium		
		Potassium	APHA 3120B/ APHA 3030 F, 23 rd Ed. 2017	
		Sodium		
	Surimening most water	pH	APHA 4500H ⁺ B, 23 rd Ed. 2017	
		Total Dissolved Solids	APHA 2540 C, 23 rd Ed. 2017	
	Swimming pool water	Total Hardness	APHA 2340 B, 23 rd Ed. 2017	
		Total Alkalinity	APHA 2320 B, 23 rd Ed. 2017	
	Transformer Oil	Kinematic viscosity	ASTM D 445, ISO 3104-1994	
Chemical Testing		Sulphur (Energy Dispersive X-ray Fluorescence	ASTM D 4294, ISO 20847- 2004	
(Petroleum		Spectrometry)		
chemistry)		Pour Point	ASTM D 97, ISO 3016- 1994	
		Flash Point (Pensky-Martens) Closed cup Tester	ASTM D 93, ISO 2719- 2016	
		Flash Point (Cleveland) Open cup Tester	ASTM D 92	
		Density and Relative Density by Digital Density Meter	ASTM D 4052, ISO 12185- 1996	
		Density and Relative Density by Hydrometer Method	ASTM D 1298, ISO 3675- 1998	
		Interfacial Tension of Oil against water	ASTM D 971	
		Corrosive Sulfur	ASTM D 1275	

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1		
	Covered Conductor Deposition Test(CCD)	ISO 62535- 2008
	Specific Resistance (Resistivity)	ASTM D 1169, IEC 60247-2004
	ASTM Colour	ASTM D 1500
	Colour	ISO 2049- 1996
	Dielectric Dissipation Factor	ASTMD 924, IEC 60247-2004
	Acid and Base Number	ASTM D 974
	Acidity (Automatic Potentiometric)	IEC 62021-1- 06(2003)
	Sludge and Sediment	IEC 61125- 2018
	Oxidation Stability	IEC 61125- 2018
	Water Content Coulometric Karl Fischer Titration	IEC 60814- 2008, ASTM D 1533
	Breakdown Voltage(BDV)	ASTM D1816, ASTM D 877
	Breakdown Voltage(BDV)	IEC 60156- 2003
	Anti-Oxidant Additives	IEC 60666- 2010, ASTM D 2668
	Furanic Compounds	ASTM D 5837, IEC 61198- 2002
	Polychlorinated Biphenyls(PCB)	ASTM D 4059, IEC 61619- 2016
	Dissolved Gas Analysis(DGA)	ASTM D 3612C, IEC 60567-2011
	Particle sizing	IEC 60970 - 2008
	Metals (Aluminum, Copper, Chromium, Iron, Lead, Nickel, Sodium, Silicon, Tin, Cadmium, Silver,	ASTM D 5185
	Titanium, Vanadium, Zinc, Sodium, Potassium,	7.01111 5 3205
	Magnesium, Manganese, Molybdenum, Boron,	
	Barium,Calcium)	
	Estimated Degree of Polymerization	Chendong Model
	Estimated Degree of Polymerization	De Pablo Model

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	Estimated Degree of Polymerization	Pahlavanpour Model
	Dibenzyl Disulfide(DBDS)	IEC 62697-1- 2012
	· · · · · · · · · · · · · · · · · · ·	ASTM D 1945
	Analysis of Natural Gas	
Gas	Analysis of Natural Gas	GPA 2286, 2014
Lubricating Oil	Kinematic Viscosity@40°C	
Lubricating On	Kinematic Viscosity@100°C	ASTM D 445
Residual Fuel Oil	Kinematic Viscosity@ 50°C	
Lubricating Oil, Bitumen	Flash Point (Cleveland) Open Cup Tester	ASTM D 92
Lubricating Oil, Residual Fuel	Flash Point (Pensky-Martens) Closed Cup Tester	ASTM D 93
Oil, Cutback residue		
Lubricating Oil	Flash Point Small Scale Closed Cup Tester	ASTM D 3828
	Metals (Aluminum, Copper, Chromium, Iron, Lead, Nickel,	ASTM D 5185
	Sodium, Silicon, Tin, Cadmium, Silver, Titanium, Vanadium,	
	Zinc, Sodium, Potassium, Magnesium, Manganese,	
	Molybdenum, Boron, Barium, Calcium)	
	Insoluble (pentane and toluene)	ASTM D 893
	Particle Count (Hydraulic fluid power - Fluids -Method for	ISO 4406- 2017
	coding the level of contamination by solid particles)	
	Total Acid Number -Color Indicator Titration	ASTM D 974
	Total Base Number- Potentiometric Perchloric Acid	ASTM D 2896
	Titration)	
Lubricating Oil, Residual Fuel	Water Content by Distillation	ASTM D 95
Oil, Diesel, Bitumen		

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Lubricating Oil, Diesel, Gasoline, Naphtha	Water Content Coulometric Karl Fischer Titration	ASTM D 6304
Aviation Fuel Nombake	Visual appearance	Visual
Aviation Fuel, Naphtha,	Color (Saybolt Chromometer Method)	ASTM D 156
Gasoline, Kerosene	Color (Automatic Tristimulus Method)	ASTM D 6045
	Particulate contamination By Laboratory Filtration	ASTM D 5452
Aviation Fuel	Particulate	
	≥4µm (c)	
	≥6µm (c)	
	≥14µm (c)	
	≥21µm (c)	IP 564
	≥25µm (c)	
	≥30µm (c)	
	Total Acidity	ASTM D 3242
	Hydrocarbon Types by Fluorescent Indicator Adsorption	ASTM D 1319
Aviation Fuel, Lubricating Oil,	Sulphur Content (Energy Dispersive X-ray Fluorescence	ASTM D 4294
Residual Fuel Oil, Crude Oil	Spectrometry)	
Aviation Fuel, Gasoline,	Mercaptan Sulfur (Potentiometric Method)	ASTM D 3227
Naphtha, Kerosene	Doctor Test	ASTM D 4952
Aviation Fuel, Gasoline,	Distillation at Atmospheric Pressure	
Naphtha, White Spirit,		ASTM D 86
Kerosene		
Aviation Fuel	Flash point -Tag Closed Cup Tester	IP 170

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Aviation Fuel, Gasoline,	Density and Relative Density by Hydrometer Method	ASTM D 1298
Crude Oil, Residual Fuel Oil	, , , ,	
Aviation Fuel, Gasoline,	Density and Relative Density by Digital Density Meter	ASTM D 4052
Naphtha, Lubricating Oil		
	Freezing point	ASTM D 2386
	Freezing point- Automatic Phase Transition Method	ASTM D5972
Aviation Fuel	Viscosity at -20°C, cSt (mm2/s)	ASTM D 445
Aviation ruei	Specific Energy, net MJ/kg	ASTM D 3338
	Smoke Point, mm	ASTM D 1322
	Naphthalenes By Ultraviolet Spectrophotometry	ASTM D 1840
Aviation Fuel, Gasoline,	Corrosiveness to Copper by Copper Strip Test	ASTM D 130
Naphtha, Lubricating Oil	(Copper Strip Classification)	
	Thermal Stability (JFTOT) control - Control Temp	ASTM D 3241
	Filter pressure differential	ASTM D 3241
	Tube deposit rating	ASTM D 3241
Aviation Fuel	Existent Gum	IP 540
	Microseparameter (MSEP), Water Separation	ASTM D 3948
	Characteristics by Portable Separometer	
	Electrical Conductivity	ASTM D 2624
Diesel Oil	Appearance	Visual
Diesel Oil, Lubricating Oil,	Colour ASTM (ASTM Color Scale)	ASTM D-1500
Heating Oil, Petroleum Waxes		
Diesel Oil, Crude Oil, Residual	Ash	ASTM D-482
Fuel oil, Lubricating Oil		

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		1.071.13.1000	
	Calorific value	ASTM D-4868	
	Acid Number-Strong		
	Acid Number- Total	ASTM D-974	
	Cetane Index	ASTM D-976, ASTM D- 4737	
	Copper Strip Corrosion, 3 hrs. 100°C	ASTM D-130	
Diesel Oil	Density and Relative Density by Hydrometer Method	ASTM D-1298	
	Density and Relative Density by Digital Density Meter	ASTM D-4052	
	Distillation at Atmospheric Pressure	ASTM D-86	
	Flash Point (Pensky-Martens) Closed Cup Tester	ASTM D-93	
	Pour point	ASTM D-97	
	Cloud point	ASTM D-2500	
	CFPP	ASTM D 6371, IP 309	
	Sediment and Water	ASTM D-2709	
Diesel Oil, Gasoline, Engine	Sulphur By Ultraviolet Fluorescence	ASTM D-5453	
Oil, Naphtha			
Diesel Oil	Kinematic Viscosity@40°C	ASTM D-445	
	Lubricity, By the High-Frequency Reciprocating Rig (HFRR)	ASTM D-6079	
	Oxidation Stability (Accelerated Method)	ASTM D-2274	
	Electrical Conductivity	ASTM D-2624	
	Sulphur Content (Energy Dispersive X-ray Fluorescence	ASTM D4294	
	Spectrometry)		

Note: the text in blue indicates the new scope OR update in the Edition of a test method in this issue of the scope of accreditation.

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END

This laboratory is recorded as issuing GAC accredited reports 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

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