





ACCREDITATION CERTIFICATE

168-LB-TEST

Emirates International **A**ccreditation **C**entre

has accredited

GEOCHEM MIDDLE EAST

OMAN LABORATORY

Way # 5207, Building # 492, Plot # 1090, Block # 135

Postal Code 133, Ghala, P. O Box 1383

Muscat- Sultanate of Oman

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 16/08/2020 to 20/12/2020

Initial Accreditation Date: 21/12/2017





CHIEF EXECUTIVE OFFICER APPROVAL





Environmental Testing

168-LB-TEST

Geochem Middle East

Oman Laboratory

Way # 5207, Building # 492, Plot # 1090, Block # 135

Postal Code 133, Ghala, P. O Box 1383

Muscat-Sultanate of Oman

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Swimming Pool water	Total aerobic count	APHA 9215 B
Microbiology	Swimming Pool water	Escherichia coli	APHA 9222 B
Microbiology	Swimming Pool water	Total Coliforms	APHA 9222 B
Microbiology	Drinking water	Total Plate Count	APHA 9215 B
Microbiology	Drinking water	Escherichia coli	APHA 9222 B
Microbiology	Drinking water	Fecal streptococci	APHA 9230 C
Microbiology	Drinking water	Pseudomonas aeruginosa	APHA 9213 E
Microbiology	Drinking water	Total Coliforms	APHA 9222 B
Microbiology	Waste water	Escherichia coli	APHA 9222 B
Microbiology	Waste water	Fecal Coliforms	APHA 9222 D





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Issue no.: 03 Date: 16-08-2020 Valid to: 20-12-2020

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water	Water Quality-	ISO 11731:2017
		Enumeration of	Matrix A : Procedure 5,7
		Legionella	Matrix B : Procedure
		Matrix A : -Water with	8,9,10
		low background.	Matrix C : Procedure 4,14
		Matrix B : - Water with	
		High Background	
		Matrix C : - Water with	
		Extremely High	
		Background	
Chemical analyisis (Potable/ Drinking water	pH Value	APHA 4500 H+B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Conductivity	APHA 2510 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Odor	APHA 2150 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Taste	APHA 2160 B
Emvirosmental Testing)			





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis (Potable/ Drinking water	Temperature,°C	APHA 2550 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Chloride as Cl	APHA 4500 Cl-B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Sulphate as SO ₄	APHA 4500 SO ₄ ⁻²
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Total Hardness as CaCO ₃	APHA 2340 C
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Calcium Hardness as	APHA 2340 B
Environmental Testing)		CaCO ₃	
Chemical analyisis (Potable/ Drinking water	Total Dissolved Solids	APHA 2540 C
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Magnesium as Mg	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Aluminum as Al	APHA 3120 B
Environmental Testing)			





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis (Potable/ Drinking water	Antimony as Sb	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Arsenic as As	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Barium as Ba	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Cadmium as Cd	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Chromium as Cr	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Copper as Cu	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Selenium	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Iron as Fe	APHA 3120 B
Environmental Testing)			





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis (Potable/ Drinking water	Lead as Pb	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Manganese	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Molybdenum	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Potable/ Drinking water	Nickel as Ni	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	рH	APHA 4500 H+B
Environmental Testing)			
Chemical analyisis (Waste water	Temperature	APHA 2550 B
Environmental Testing)			
Chemical analyisis (Waste water	Chemical Oxygen	APHA 5220
Environmental Testing)		Demand	
Chemical analyisis (Waste water	Total Suspended Solids	APHA 2540 D
Environmental Testing)			





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis (Waste water	Aluminum as Al	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Arsenic as As	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Barium as Ba	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Beryllium as Be	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Boron	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Cadmium as Cd	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Chromium as Cr	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Cobalt as Co	APHA 3120 B
Environmental Testing)			





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis (Waste water	Copper	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Iron as Fe	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Lead as Pb	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Lithium as Li	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Molybdenum as Mo	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Nickel as Ni	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Selenium as Se	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Silver as Ag	APHA 3120 B
Environmental Testing)			





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis (Waste water	Total Chlorine	APHA 4500 Cl G
Environmental Testing)			
Chemical analyisis (Waste water	Vanadium as V	APHA 3120 B
Environmental Testing)			
Chemical analyisis (Waste water	Zinc as Zn	APHA 3120 B
Environmental Testing)			

Accreditation History			
Issue no.	Details	Date	
03	First issuance under the name of Emirates International	16-08-2020	
	Accreditation Centre 'EIAC' (Which was formerly known as		
	DAC)		
02	Change in Legionella test as per ISO 11731: 2017	15-07-2018	
	Matrix A, Matrix B and Matrix C		
01	Granted accreditation from Dubai Accreditation Center 'DAC'	21-12-2017	





Petroleum & Petrochemical Testing

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Muscat-Sultanate of Oman

Dil/ Determination of ASTM	ACTA D 4500
	ASTM D 1500
Color of Petroleum	
Products (ASTM Color	
Scale)	
Dil/ Determination of Acid	ASTM D 974
and Base Number by	
Color-Indicator Titration	
Dil/ Determination of	ASTM D874
Sulfated Ash from	
Lubricating Oils and	
Additives	
Dil/ Determination of Ash	ASTM D 482
from Petroleum Products	
	Scale) Determination of Acid and Base Number by Color-Indicator Titration Dil/ Determination of Sulfated Ash from Lubricating Oils and Additives Dil/ Determination of Ash





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Lube Oil/ Engine Oil/	Determination of	ASTM D1298
(Petroleum &	Hydraulic Oil	Density, Relative Density,	
Petrochemical Testing)		or API Gravity of Crude	
		Petroleum and Liquid	
		Petroleum Products by	
		Hydrometer Method	
Chemical analyisis	Lube Oil/ Engine Oil/	Determination of Flash	ASTM D 92
(Petroleum &	Hydraulic Oil	and Fire Points by	
Petrochemical Testing)		Cleveland Open Cup	
		Tester	
Chemical analyisis	Lube Oil/ Engine Oil/	Determination of Flash	ASTM D93
(Petroleum &	Hydraulic Oil	Point by Pensky-Martens	
Petrochemical Testing)		Closed Cup Tester	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Lube Oil/ Engine Oil/	Determination of	ASTM D445
(Petroleum &	Hydraulic Oil	Kinematic Viscosity of	
Petrochemical Testing)		Transparent and Opaque	
		Liquids (and Calculation	
		of Dynamic Viscosity)	
Chemical analyisis	Lube Oil/ Engine Oil/	Determination of	ASTM D2270
(Petroleum &	Hydraulic Oil	Calculating Viscosity	
Petrochemical Testing)		Index from Kinematic	
		Viscosity at 40 °C and	
		100 °C	
Chemical analyisis	Lube Oil/ Engine Oil/	Determination of coding	ISO 4406
(Petroleum &	Hydraulic Oil	the level of	
Petrochemical Testing)		contamination by solid	
		particles	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Lube Oil/ Engine Oil/	Determination of	ASTM D5185
(Petroleum &	Hydraulic Oil	Multielement	
Petrochemical Testing)		Determination of Used	
		and Unused Lubricating	
		Oils and Base Oils by	
		Inductively Coupled	
		Plasma Atomic Emission	
		Spectrometry (ICP-AES)	
Chemical analyisis	Transformer Oil	Determination of Water	ASTM D95
(Petroleum &		in Petroleum Products	
Petrochemical Testing)		and Bituminous Materials	
		by Distillation	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Transformer Oil	Determination of	ASTM D 6304
(Petroleum &		Determination of Water	
Petrochemical Testing)		in Petroleum Products,	
		Lubricating Oils, and	
		Additives by Coulometric	
		Karl Fischer Titration	
Chemical analyisis	Transformer Oil	Determination of ASTM	ASTM D 1500
(Petroleum &		Color of Petroleum	
Petrochemical Testing)		Products (ASTM Color	
		Scale)	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Transformer Oil	Determination of	ASTM D1298
(Petroleum &		Density, Relative Density,	
Petrochemical Testing)		or API Gravity of Crude	
		Petroleum and Liquid	
		Petroleum Products by	
		Hydrometer Method	
Chemical analyisis	Transformer Oil	Determination of Flash	ASTM D 92
(Petroleum &		and Fire Points by	
Petrochemical Testing)		Cleveland Open Cup	
		Tester	
Chemical analyisis	Transformer Oil	Determination of	ASTM D 971
(Petroleum &		Interfacial Tension of Oil	
Petrochemical Testing)		Against Water by the	
		Ring Method	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Transformer Oil	Determination of Acid	ASTM D 974
(Petroleum &		and Base Number by	
Petrochemical Testing)		Color-Indicator Titration	
Chemical analyisis	Transformer Oil	Determination of	ASTM D 6786
(Petroleum &		Particle Count in Mineral	
Petrochemical Testing)		Insulating Oil Using	
		Automatic Optical	
		Particle Counters	
Chemical analyisis	Transformer Oil	Determination of Water	ASTM D 1533
(Petroleum &		in Insulating Liquids by	
Petrochemical Testing)		Coulometric Karl Fischer	
		Titration	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Transformer Oil	Determination of	ASTM D 3612-C
(Petroleum &		Analysis of Gases	
Petrochemical Testing)		Dissolved in Electrical	
		Insulating Oil by Gas	
		Chromatography	
Chemical analyisis	Transformer Oil	Determination of	ASTM D445
(Petroleum &		Kinematic Viscosity of	
Petrochemical Testing)		Transparent and Opaque	
		Liquids (and Calculation	
		of Dynamic Viscosity)	
Chemical analyisis	Diesel, Fuel Oil	Determination of ASTM	ASTM D 1500/IP 196
(Petroleum &	(Residual& Marine)	Color of Petroleum	
Petrochemical Testing)		Products (ASTM Color	
		Scale)	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Diesel, Fuel Oil	Determination of Acid	ASTM D 974/IP 123
(Petroleum &	(Residual& Marine)	and Base Number by	
Petrochemical Testing)		Color-Indicator Titration	
Chemical analyisis	Diesel, Fuel Oil	Determination of	ASTM D 874/ IP 163
(Petroleum &	(Residual& Marine)	Sulfated Ash from	
Petrochemical Testing)		Lubricating Oils and	
		Additives	
Chemical analyisis	Diesel, Fuel Oil	Determination of ash	ISO 6245
(Petroleum &	(Residual& Marine)		
Petrochemical Testing)			





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Type of Activity	Test	Test Name	Test Method
	Materials/Products	rest Name	
Chemical analyisis	Diesel, Fuel Oil	Determination of Water	ASTM D 95
(Petroleum &	(Residual& Marine)	in Petroleum Products	
Petrochemical Testing)		and Bituminous Materials	
		by Distillation	
Chemical analyisis	Diesel, Fuel Oil	Petroleum products and	ISO 3733
(Petroleum &	(Residual& Marine)	bituminous materials —	
Petrochemical Testing)		Determination of water	
		— Distillation method	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Diesel, Fuel Oil	Determination of	ASTM D1298/IP 160
(Petroleum &	(Residual& Marine)	Density, Relative Density,	
Petrochemical Testing)		or API Gravity of Crude	
		Petroleum and Liquid	
		Petroleum Products by	
		Hydrometer Method	
Chemical analyisis	Diesel, Fuel Oil	Crude petroleum and	ISO 3675
(Petroleum &	(Residual& Marine)	liquid petroleum products	
Petrochemical Testing)		— Laboratory	
		determination of density	
		— Hydrometer method	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Diesel, Fuel Oil	Determination of Flash	ASTM D93
(Petroleum &	(Residual& Marine)	Point by Pensky-Martens	
Petrochemical Testing)		Closed Cup Tester	
Chemical analyisis	Diesel, Fuel Oil	Determination of flash	ISO 2719
(Petroleum &	(Residual& Marine)	point — Pensky-Martens	
Petrochemical Testing)		closed cup method	
Chemical analyisis	Diesel, Fuel Oil	Determination of	ASTM D 445
(Petroleum &	(Residual& Marine)	Kinematic Viscosity of	
Petrochemical Testing)		Transparent and Opaque	
		Liquids (and Calculation	
		of Dynamic Viscosity)	





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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis	Diesel, Fuel Oil	Petroleum products —	ISO 3104/IP71
(Petroleum &	(Residual& Marine)	Transparent and opaque	
Petrochemical Testing)		liquids — Determination	
		of kinematic viscosity and	
		calculation of dynamic	
		viscosity	

Accreditation History			
Issue no.	Date		
02	02 First issuance under the name of EIAC (Which was formerly known as DAC)		
01	Granted accreditation from Dubai Accreditation Center 'DAC'	21-12-2017	





Food Testing

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analyisis (Food	Flour	Solids/ Loss on drying	AOAC 925.10
Testing)		Ash	AOAC 923.03
		Protein	AOAC 920.87

Accreditation History		
Issue no.	Details	Date
02	First issuance under the name of EIAC (Which was formerly known as DAC)	16-08-2020
01	Granted accreditation from Dubai Accreditation Center 'DAC'	21-12-2017