



# ACCREDITATION CERTIFICATE

**LB-TEST-168**

**Emirates International Accreditation Centre**

has accredited

**GEOCHEM MIDDLE EAST**

**OMAN LABORATORY**

Way # 5207, Building # 692, Block # 135

Postal Code 133, Ghala, P. O Box 1383

Al Khuwair, 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: 22/03/2021 to 20/12/2023

Initial Accreditation Date: 21/12/2017



  
CHIEF EXECUTIVE OFFICER  
APPROVAL



**Accreditation Scope**  
**Environmental Testing**  
**LB-TEST-168**

**Geochem Middle East**

**Oman Laboratory**

**Way # 5207, Building # 692, Block # 135**

**Postal Code 133, Ghala, P. O Box 1383**

**Al Khuwair, Muscat-Sultanate of Oman**

Issue no.: 04

Date: 22-03-2021

Valid to: 20-12-2023

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

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Issue no.: 04

Date: 22-03-2021

Valid to: 20-12-2023

Type of Activity	Test Materials/Products	Test Name	Test Method
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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Date: 22-03-2021

Valid to: 20-12-2023

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

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Date: 22-03-2021

Valid to: 20-12-2023

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Potable/ Drinking water	Odor	APHA 2150 B
Chemical analysis	Potable/ Drinking water	Taste	APHA 2160 B
Chemical analysis	Potable/ Drinking water	Temperature, °C	APHA 2550 B
Chemical analysis	Potable/ Drinking water	Chloride as Cl	APHA 4500 Cl-B
Chemical analysis	Potable/ Drinking water	Sulphate as SO <sub>4</sub>	APHA 4500 SO <sub>4</sub> <sup>-2</sup>
Chemical analysis	Potable/ Drinking water	Total Hardness as CaCO <sub>3</sub>	APHA 2340 C
Chemical analysis	Potable/ Drinking water	Calcium Hardness as CaCO <sub>3</sub>	APHA 2340 B

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Date: 22-03-2021

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Potable/ Drinking water	Total Dissolved Solids	APHA 2540 C
Chemical analysis	Potable/ Drinking water	Magnesium as Mg	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Aluminum as Al	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Antimony as Sb	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Arsenic as As	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Barium as Ba	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Cadmium as Cd	APHA 3120 B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Potable/ Drinking water	Chromium as Cr	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Copper as Cu	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Selenium	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Iron as Fe	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Lead as Pb	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Manganese	APHA 3120 B
Chemical analysis	Potable/ Drinking water	Molybdenum	APHA 3120 B

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Issue no.: 04

Date: 22-03-2021

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Potable/ Drinking water	Nickel as Ni	APHA 3120 B
Chemical analysis	Waste water	pH	APHA 4500 H+B
Chemical analysis	Waste water	Temperature	APHA 2550 B
Chemical analysis	Waste water	Chemical Oxygen Demand	APHA 5220
Chemical analysis	Waste water	Total Suspended Solids	APHA 2540 D
Chemical analysis	Waste water	Aluminum as Al	APHA 3120 B
Chemical analysis	Waste water	Arsenic as As	APHA 3120 B



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Issue no.: 04

Date: 22-03-2021

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Waste water	Barium as Ba	APHA 3120 B
Chemical analysis	Waste water	Beryllium as Be	APHA 3120 B
Chemical analysis	Waste water	Boron	APHA 3120 B
Chemical analysis	Waste water	Cadmium as Cd	APHA 3120 B
Chemical analysis	Waste water	Chromium as Cr	APHA 3120 B
Chemical analysis	Waste water	Cobalt as Co	APHA 3120 B
Chemical analysis	Waste water	Copper	APHA 3120 B

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

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

Accreditation History		
Issue no.	Details	Date
04	Renewal accreditation from EIAC	22-03-2021
03	First issuance under the name of Emirates International Accreditation Centre 'EIAC' (Which was formerly known as DAC)	16-08-2020
02	Change in Legionella test as per ISO 11731: 2017 Matrix A, Matrix B and Matrix C	15-07-2018
01	Granted accreditation from Dubai Accreditation Center 'DAC'	21-12-2017

**Accreditation Scope**  
**Petroleum & Petrochemical Testing**  
**LB-TEST-168**

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Issue no.: 03

Date: 22-03-2021

Valid to: 20-12-2023

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of ASTM Color of Petroleum Products (ASTM Color Scale)	ASTM D1500
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Acid and Base Number by Color-Indicator Titration	ASTM D974
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Sulfated Ash from Lubricating Oils and Additives	ASTM D874

**Accreditation Scope**  
**Petroleum & Petrochemical Testing**  
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**Issue no.: 03**

**Date: 22-03-2021**

**Valid to: 20-12-2023**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Ash from Petroleum Products	ASTM D482
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method	ASTM D1298
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Flash and Fire Points by Cleveland Open Cup Tester	ASTM D92

**Accreditation Scope**  
**Petroleum & Petrochemical Testing**  
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Date: 22-03-2021

Valid to: 20-12-2023

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Calculating Viscosity Index from Kinematic Viscosity at 40 °C and 100 °C	ASTM D2270

**Accreditation Scope**  
**Petroleum & Petrochemical Testing**  
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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of coding the level of contamination by solid particles	ISO 4406
Chemical analysis	Lube Oil/ Engine Oil/ Hydraulic Oil	Determination of Multielement Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D5185

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Issue no.: 03

Date: 22-03-2021

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Transformer Oil	Determination of Water in Petroleum Products and Bituminous Materials by Distillation	ASTM D95
Chemical analysis	Transformer Oil	Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration	ASTM D6304



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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Transformer Oil	Determination of ASTM Color of Petroleum Products (ASTM Color Scale)	ASTM D1500
Chemical analysis	Transformer Oil	Determination of Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer	ASTM D1298
Chemical analysis	Transformer Oil	Determination of Flash and Fire Points by Cleveland Open Cup Tester	ASTM D92

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Transformer Oil	Determination of Interfacial Tension of Oil Against Water by the Ring Method	ASTM D971
Chemical analysis	Transformer Oil	Determination of Acid and Base Number by Color-Indicator Titration	ASTM D974
Chemical analysis	Transformer Oil	Determination of Particle Count in Mineral Insulating Oil Using Automatic Optical Particle Counters	ASTM D6786

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Transformer Oil	Determination of Water in Insulating Liquids by Coulometric Karl Fischer Titration	ASTM D1533
Chemical analysis	Transformer Oil	Determination of Analysis of Gases Dissolved in Electrical Insulating Oil by Gas Chromatography	ASTM D3612-C
Chemical analysis	Transformer Oil	Determination of Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445

**Accreditation Scope**  
**Petroleum & Petrochemical Testing**  
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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of ASTM Color of Petroleum Products (ASTM Color Scale)	ASTM D1500/IP 196
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of Acid and Base Number by Color-Indicator Titration	ASTM D974/IP 123
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of Sulfated Ash from Lubricating Oils and Additives	ASTM D874/ IP 163
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of ash	ISO 6245

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Date: 22-03-2021

Valid to: 20-12-2023

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of Water in Petroleum Products and Bituminous Materials by Distillation	ASTM D95
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Petroleum products and bituminous materials — Determination of water — Distillation method	ISO 3733

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Date: 22-03-2021

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

**Accreditation Scope**  
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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of flash point — Pensky-Martens closed cup method	ISO 2719
Chemical analysis	Diesel, Fuel Oil (Residual& Marine)	Determination of Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445

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

Accreditation History		
Issue no.	Details	Date
03	Renewal accreditation from EIAC	22-03-2021
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



## Accreditation Scope

### Food Testing

### LB-TEST-168

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical analysis	Flour	Solids/ Loss on drying	AOAC 925.10
		Ash	AOAC 923.03
		Protein	AOAC 920.87

Accreditation History		
Issue no.	Details	Date
03	Renewal accreditation from EIAC	22-03-2021
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