



ACCREDITATION CERTIFICATE

LB-TEST-147

Emirates International Accreditation Centre

has accredited

DUBAI ELECTRICITY AND WATER AUTHORITY PJSC

Transmission Power - Transformer Oil Test Laboratory

DEWA Transmission Complex, Al Warsan

Dubai- United Arab Emirates

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: 19/10/2022 to 07/09/2025

Initial Accreditation Date: 08/09/2016




CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope
Petroleum Testing
LB-TEST-147

Dubai Electricity and Water Authority PJSC

Transmission Power - Transformer Oil Test Laboratory

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Issue no.: 04

Date: 19-10-2022

Valid to: 07-09-2025

Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum & Petrochemical	Transformer Oil	Determination of the breakdown voltage	IEC 60156
		Determination of water by automatic coulometric Karl Fischer titration	IEC 60814
		Measurement of relative permittivity, dielectric dissipation factor (tan d) and d.c. resistivity	IEC 60247

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Date: 19-10-2022

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum & Petrochemical	Transformer Oil	Analysis of Dissolved Gases in Electrical insulating Oil by Gas Chromatography (DGA)	IEC 60567
		Determination of colour (ASTM scale)	ISO 2049
		Determination of Appearance	IEC 60296 Clause 6.6
		Determination of flash point by Pensky-Martens closed cup method	ISO 2719

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum & Petrochemical	Transformer Oil	Determination of kinematic viscosity and calculation of dynamic viscosity @ 40 deg. C	ISO 3104
		Determination of Interfacial Tension of Oil Against Water by the Ring Method	ASTM D971
		Determination of acidity	IEC 62021-1
		Determination of 2-furfural and related compounds	IEC 61198

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum & Petrochemical	Transformer Oil	Detection and determination of specified additives in mineral insulating oils	IEC 60666

Accreditation History		
Issue no.	Details	Date
04	Renewal of the accreditation and a change in the laboratory's name (was formerly known as Dubai Electricity and Water Authority)	19-10-2022
03	Issued to comply with the new accreditation number format	30-09-2020
02	Renewal accreditation and First issuance under the name of EIAC (which formally was known as DAC)	08-09-2019