TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

TÜV AUSTRIA TURK BEL.EĞİTİM VE GÖZETİM HİZ.LTD.ŞTİ. KOCAELİ ŞUBESİ

Central Address: TÜV Austria Turk OCM (Oil Condition Monitoring Yağ Durum İzleme) Laboratuvarı ,Mehmetağa Mahallesi Kullar Caddesi No: 59 Kocaeli/Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-2000-T

Accreditation Date : 28.10.2024

Revision Date / Number : 28.10.2024 / 00

This certificate shall remain in force until **28.10.2028**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

Test
TS EN ISO/IEC 17025
AB-2000-T

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Testing Laboratory

Address :
TÜV Austria Turk OCM (Oil Condition Monitoring Yağ Durum İzleme)
Laboratuvarı ,Mehmetağa Mahallesi Kullar Caddesi No: 59 Kocaeli/Türkiye

Phone : +90 216 537 0811
Fax : -
Email : neval.tunc@tuv.at
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Lubricants

Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Mineral oils	Determination of Total Acid Number (TAN) Potensiometric Titration Method	ASTM D664
Mineral oils	Determination of Total Acid Number (TAN) Indicator Method	ASTM D974 TS 9178 ISO 6618
Mineral oils	Determination of Total Base Number (TBN) Potenciometric Perchloric Acid Titration Method	ASTM D2896 TS ISO 3771
Transformer insulation oils	Determination of Density and Relative Density Oscillating U-Tube Method	ASTM D4052 TS EN ISO 12185
Mineral oils	Determination of additive elements, wear metals and pollutant quantities - Silver (Ag), Aluminum (Al), Bor (B), Barium (Ba), Calcium (Ca), Cadminium (Cd), Chrome (Cr), Copper (Cu), Iron (Fe), Magnesium (Mg) Mangan (Mn), Molybdenum (Mo), Sodium (Na), Nickel (Ni), Phosphor (P), Lead (Pb), Silisium (Si), Tin (Sn), Titanium (Ti), Vanadium (V) and Zinc (Zn) ICP Emission Spectrometry Method	ASTM D5185
Mineral oils	Determination of Water Amount Culometrical Karl Fischer Titration Method	ASTM D6304 TS 6147 EN ISO 12937
Mineral oils	Determination of Flash-point Continuous Closed Cup Method	ASTM D6450
Mineral oils	Evaluation of Used Oils FTIR Method	ASTM E2412
Mineral oils	Determination of Appereance Visual Inspection Method	In-house Method INS-LAB-03 Rev.No:1 (Modified from ASTM D4176)
Transformer insulation oils	Determination of Interfacial Tension by Ring Method	ASTM D971
Mineral oils, Transformer Insulation Oils	Determination of Kinematic Viscosity Houillon Method	ASTM D7279
Mineral oils	Determination of ASTM Color	ASTM D1500 TS 1713 ISO 2049
Mineral oils	Automatic Particle Count Determination Method of Dilution Techniques to Eliminate Water Additives and Soft Particles that Interfere with Light Quenching	ASTM D7647

Accreditation Scope

Test
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Turbine oils	Oxidation Stability (RPVOT)	ASTM D2272
Transformer insulation oils	Determination of Dissipation Factor	ASTM D 924 TS EN 60247 IEC 60247
Transformer insulation oils	Determination of Breakdown Voltage	ASTM D877
Mineral oils	Determination of pH	ASTM D7946

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