



CERTIFICATE OF ACCREDITATION

This is to attest that

ABU DHABI NATIONAL OIL COMPANY RUWAIS

ABU DHABI OIL REFINING COMPANY - RUWAIS REFINERY LABORATORY - I, II & III RUWAIS
ABU DHABI, UNITED ARAB EMIRATES

Testing Laboratory TL-1225

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date January 22, 2024



A handwritten signature in black ink, reading "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ABU DHABI NATIONAL OIL COMPANY RUWAIS

Contact Name Abood Hasan Al Jaberi

Contact Phone +971-27027688

Accredited to ISO/IEC 17025:2017

Effective Date January 22, 2024

ASTM D86-23	Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure
ASTM D93-20	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
ASTM D130-19	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D156-23	Standard Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)
ASTM D381-22	Standard Test Method for Gum Content in Fuels by Jet Evaporation
ASTM D445-23	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
ASTM D482-19	Standard Test Method for Ash from Petroleum Products
ASTM D974-22	Standard Test Method for Acid and Base Number by Color-Indicator Titration
ASTM D1322-22	Standard Test Method for Smoke Point of Kerosene and Aviation Turbine Fuel
ASTM D1500-12(2017)	Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
ASTM D2624-22	Standard Test Methods for Electrical Conductivity of Aviation and Distillate Fuels
ASTM D3227-23	Standard Test Method for (Thiol Mercaptan) Sulfur in Gasoline, Kerosene, Aviation Turbine, and Distillate Fuels (Potentiometric Method)
ASTM D3241-23a	Standard Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels
ASTM D3242-11(2017)	Standard Test Method for Acidity in Aviation Turbine Fuel
ASTM D3338/D3338M-20a	Standard Test Method for Estimation of Net Heat of Combustion of Aviation Fuels
ASTM D4052-22	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
ASTM D4176-22	Standard Test Method for Free Water and Particulate Contamination in Distillate Fuels (Visual Inspection Procedures)
ASTM D4292-23	Standard Test Method for Determination of Vibrated Bulk Density of Calcined Petroleum Coke

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ASTM D4294-21	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry
ASTM D4422-19	Standard Test Method for Ash in Analysis of Petroleum Coke
ASTM D4530-15(2020)	Standard Test Method for Determination of Carbon Residue (Micro Method)
ASTM D4737-21	Standard Test Method for Calculated Cetane Index by Four Variable Equation
ASTM D4815-22	Standard Test Method for Determination of MTBE, ETBE, TAME, DIPE, tertiary-Amyl Alcohol and C1 to C4 Alcohols in Gasoline by Gas Chromatography
ASTM D5003-19	Standard Test Method for Hardgrove Grindability Index (HGI) of Petroleum Coke
ASTM D5134-21	Standard Test Method for Detailed Analysis of Petroleum Naphthas through n-Nonane by Capillary Gas Chromatography
ASTM D5187-21	Standard Test Method for Determination of Crystallite Size (Lc) of Calcined Petroleum Coke by X-Ray Diffraction
ASTM D5191-22	Standard Test Method for Vapor Pressure of Petroleum Products and Liquid Fuels (Mini Method)
ASTM D5453-19a	Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence
ASTM D5580-21	Standard Test Method for Determination of Benzene, Toluene, Ethylbenzene, p/m-Xylene, o-Xylene, C9 and Heavier Aromatics, and Total Aromatics in Finished Gasoline by Gas Chromatography
ASTM D5773-21	Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels (Constant Cooling Rate Method)
ASTM D5949-16(2022)	Standard Test Method for Pour Point of Petroleum Products (Automatic Pressure Pulsing Method)
ASTM D5972-23	Standard Test Method for Freezing Point of Aviation Fuels (Automatic Phase Transition Method)
ASTM D6079-22	Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR)
ASTM D6217	Standard Test Method for Particulate Contamination in Middle Distillate Fuels by Laboratory Filtration
ASTM D6304	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration
ASTM D6371-17a	Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels
ASTM D6379-21e1	Standard Test Method for Determination of Aromatic Hydrocarbon Types in Aviation Fuels and Petroleum Distillates—High Performance Liquid Chromatography Method with Refractive Index Detection

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ASTM D6839-21a	Standard Test Method for Hydrocarbon Types, Oxygenated Compounds, Benzene, and Toluene in Spark Ignition Engine Fuels by Multidimensional Gas Chromatography
ASTM D7042	Standard Test Method for Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity)
IP 170 (last revised 2023)	Determination of flash point – Abel closed-cup method (ISO 13736:2021)
IP 387	Determination of filter blocking tendency
IP 540 (reapproved 2019)	Determination of the existent gum content of aviation turbine fuel - Jet evaporation method
UOP960-20	Determination of Trace Oxygenated Hydrocarbons in Gaseous, LPG and Liquid Hydrocarbon Streams by GC