



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Texas Oiltech Laboratories, Inc.
10630 Fallstone Road, Houston, TX 77099

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Chemical, Environmental and Mechanical Testing
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:

November 18, 2011

Issue Date:

March 06, 2024

Expiration Date:

March 31, 2026

Accreditation No.:

72003

Certificate No.:

L24-180

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Texas Oiltech Laboratories, Inc.

10630 Fallstone Road, Houston, TX 77099

Contact Name: Ms. Jeanine Malapaya Phone: 281-495-2400

Accreditation is granted to the facility to perform the following testing:

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	
F1, F2	Chemical ^F	Petroleum Hydrocarbon Oils, Fuels	Viscosity at 40°C	ASTM D445	Viscometer	
F1, F2			Density @ 15°C	ASTM D4052	Densimeter	
F1, F2				ASTM D1298	Hydrometer	
F1, F2			Cetane Index	ASTM D976 ASTM D86 ASTM D2887	Distillation GC	
F1, F2			Sulfur	ASTM D2622	Sulfur, X-Ray Spectrometry	
F1, F2				ASTM D4294	Sulfur by X-Ray Fluorescence Spectroscopy	
F1, F2			Flash Point	ASTM D93 D92	Closed Cup Apparatus	
F1, F2			Acid Number	ASTM D664	Manual Titration	
F1, F2			Total Sediment by Hot Filtration	ASTM D4870	Filtration Apparatus	
F1, F2			Oxidation Stability	ASTM D2274	Oxidation Cell, Filtration Assembly,	
F1, F2			Carbon Residue: Micro Method on the 10 % Volume Distillation	ASTM D4530 ASTM D524	Carbon residue tester	
F1, F2			Cloud Point	ASTM D2500	DSI instrument	
F1, F2			Pour Point	ASTM D97		
F1, F2			Appearance	ASTM D4176	Visual check	
F1, F2			Water	ASTM D95	Distillation	
F1, F2			ASH	ASTM D482	Muffle Furnace	
F1, F2			Lubricity, Corrected Wear Scar Diameter	ASTM D6079	HFRR instrument	
F1, F2			Hydrogen Sulfide	ASTM D7621	Instrument	
F1, F2			Petroleum Products	BTU	ASTM 240	calorimeter
F1, F2					ASTM 4809	
F1, F2			Petroleum Products - Fuel, Lubricant	Water Determinatio	ASTM D6304	Karl Fischer Titration
F1, F2				Foaming Tendencies of Engine Coolants	ASTM D1881	Foaming glassware
F1, F2			Petroleum Products -Fuel, Lubricant	Density of crude oils	ASTM D5002	Densimeter
F1, F2				Vapor pressure of petroleum products (mini method)	ASTM D5191	mini Reid
F1, F2				Determination of Vapor Pressure of Crude Oil	ASTM D6377	Vapor pressure apparatus



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F1, F2	Chemical ^F	Petroleum Products, Crude	Asphaltenes (Heptane Insolubles)	ASTM D6560	Reflux Extractor distillation
F1, F2			Sulfur Compounds in Light Petroleum Liquids	ASTM D5623	Gas Chromatography
F1, F2			Boiling Point Distribution of Crude Oils and Vacuum Residues b	ASTM D7169	
F1, F2		Gas Component	Sulfur Compounds	ASTM D5504	Siever Gas Chromatography
F1, F2	Chemical and Mechanical ^F	Petroleum	Metals: Sodium & Vanadium	ASTM D5708	ICP-OES
F1, F2			Aluminum & Silicon	ASTM D5184	
F1, F2			Zinc, Phosphorus & Calcium	ASTM D5185	
F1, F2			Calcium, Lead, Vanadium, Silicon, Iron, Magnesium, Sodium, Nickel	ASTM D7111	
F1, F2		FAME (Fatty Acid Methyl Esters)	ASTM D737	FTIR	
F1, F2		Oxidation Stability	ASTM D5304	Filtration System	
F1, F2		Dielectric Breakdown Voltage & Disc Electrodes	ASTM D877 ASTM D1816	Dielectric Apparatus	
F1, F2		Calc Carbon Aromaticity Index (CCAI)	Calculation	Calculation	
F1, F2		Chemical and Environmental ^{FO}	Gas Components	Gas	ASTM D1945
F1, F2	ASTM D1946				
F1, F2	ASTM D4888				Length-of-Stain Detector Tubes
F1, F2	ASTM D5504				Siever Gas Chromatography
F1, F2	ASTM D5623				
F1, F2	ASTM D6667				Sulfur analyzer
F1, F2	GPA 2261				Gas Chromatography
F1, F2	GPA 2286		Gas Chromatography		
F1, F2, F3	Metals by ICP AES		Metals	ASTM D1976	ICP AES
F1, F2, F3	Fuels, oils, Petroleum		Metals	ASTM D6595	Rotating disc electrode atomic emission spectroscopy (RDE-AES)
F1, F2	Cleaner linen	Particle Size	NAS 1638 and ISO 4406	Particle counter	



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F1, F2	Chemical and Environmental ^F	Fuels, Oils, Petroleum, Aqueous and Non Aqueous	Anions Inorganic	ASTM D4327	Dionex instrument
F1, F2			Anions Inorganic Organic acids	TOL – 6055 (ASTM 5560M)	
F1, F2, F3		Water, wastewater	Metals	EPA 200.7	ICP AES

- The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.
- The presence of a superscript O means that the laboratory performs testing of the indicated parameter onsite at customer locations.
- Flex Code:
 - F1-Introduction of the testing of a new item, material, matrix, or product for an accredited test method
 - F2-Introduction of a new version of an accredited standard method (with no modifications)
 - F3-Introduction of a new parameter/component/analyte to an accredited test method
 - F4- Introduction of a new version or modifications of an accredited non-standard method
 - F5-Introduction of a new method that is equivalent to an accredited method (using same technology or technique)