



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

SPL, Inc. dba Alcor Petrolab
1300 Corporate Drive E.
Arlington, TX 76006

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to be 'Jason Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 11 September 2025

Certificate Number: AT-2811



This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SPL, Inc. dba Alcor Petrolab

1300 Corporate Drive E.

Arlington, TX 76006

Brian Eichelberger brian.eichelberger@spl-inc.com 817 633 9119

TESTING

Valid to: **September 11, 2025**

Certificate Number: **AT-2811**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Acidity	ASTM D3242 ASTM D7795	Petroleum Products	Titration
Hydrocarbon Type by FIA	ASTM D1319	Petroleum Products	Column Chromatography
Sulfur	ASTM D7039 ASTM D2622	Petroleum Products	Wavelength dispersive X-ray Fluorescence Spectrometer (WDXRF)
Active Sulfur Species in Fuels and Solvents (Doctor Test)	ASTM D4952	Petroleum Products	Visual
Naphthalene by UV-VIS	ASTM D1840	Petroleum Products	UV -VIS Spectrophotometry
Electrical Conductivity	ASTM D2624	Petroleum Products	Conductivity Meter
Simulated Distillation of Petroleum Fractions	ASTM D2887	Petroleum Products	Gas Chromatography
Saybolt Color by Automatic Tristimulus	ASTM D6045	Petroleum Products	Automatic Tristimulus
Estimated Hydrogen Content	ASTM D3343	Petroleum Products	Calculation
Vapor Pressure, Mini Method	ASTM D5191	Petroleum Products	Vapor Pressure Instrument
Driveability Index	ASTM D4814	Petroleum Products	Calculation
Oxygenate Content in Gasoline	ASTM D4815	Petroleum Products	Gas Chromatography

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Biodiesel Content in Diesel Fuel Oil	ASTM D7371	Petroleum Products	Fourier Transform Infrared Spectroscopy
Karl Fischer Water Content	ASTM D7923, ASTM D6304, ASTM E1064	Petroleum Products	Coulometric Titrator
Karl Fischer Water Content	ASTM D7923, ASTM E203	Petroleum Products	Volumetric Titrator
Ethanol and Methanol Content in Fuels with >20% Ethanol	ASTM D5501	Petroleum Products	Gas Chromatography
Inorganic Chloride in Fuel Ethanol	ASTM D7328	Petroleum Products	Ion Chromatography
Existent Sulfate in Fuel Ethanol	ASTM D7328	Petroleum Products	Ion Chromatography
pHe of Ethanol and Ethanol Blends	ASTM D6423	Petroleum Products	pH
Acid Number	ASTM D664, SAE ARP 5088	Petroleum Products	Titrator
Base Number	ASTM D2896	Petroleum Products	Titrator
Metals by ICP-AES	ASTM D7111, ASTM D5185, ASTM D4951, ASTM D7691, ASTM D5708, ASTM D1688M, EN 14538	Petroleum Products	Inductively Coupled Plasma-Atomic Emission Spectrophotometer (ICP-AES)

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Distillation	ASTM D 86	Petroleum Products	Distillation Apparatus
TAG CC Flash Point	ASTM D56	Petroleum Products	Flash Point Instrument
PMCC Flash Point	ASTM D93	Petroleum Products	Flash Point Instrument
Density, Relative Density and API Gravity	ASTM D4052	Petroleum Products	Densitometer
Freezing Point	ASTM D5972	Petroleum Products	Phase Instrument
Freezing Point	ASTM D2386	Petroleum Products	Freeze Point Bath
Kinematic Viscosity	ASTM D445, ASTM D2532	Petroleum Products	Viscosity Bath
Estimated Net Heat of Combustion	ASTM D3338	Petroleum Products	Calculation
Gross Heat of Combustion	ASTM D4809, ASTM D240	Petroleum Products	Calorimeter
Smoke Point	ASTM D1322	Petroleum Products	Smoke Point Instrument
Copper Corrosion	ASTM D130	Petroleum Products	Copper Corrosion Bath
Thermal Oxidation Stability (JFTOT)	ASTM D3241	Petroleum Products	Jet Fuel Thermal Oxidation Tester (JFTOT)
Gum Solvent Washed, Unwashed and Existent	IP 540, ASTM D381	Petroleum Products	Evaporation Bath
Water Separation, MSEP	ASTM D3948	Petroleum Products	Microseparometer (MSEP)
Particulate Contamination	ASTM D5452, ASTM D6217, ASTM D7321, ASTM D4898	Petroleum Products	Filtration
Lubricity by BOCLE	ASTM D5001	Petroleum Products	Ball on Cylinder Lubricity Evaluator (BOCLE)
Appearance	ASTM D4176	Petroleum Products	Visual
Water Reaction	ASTM D1094	Petroleum Products	Graduated Cylinder
Oxidation Stability (Induction Period)	ASTM D525	Petroleum Products	Oxidation Stability Bath
Research Octane Number	ASTM D2699	Petroleum Products	Octane Engine

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Motor Octane Number	ASTM D2700	Petroleum Products	Octane Engine
Antiknock Index	ASTM D4814 X1.4.2	Petroleum Products	Calculation
Estimated Vapor-Liquid Ratio	ASTM D4814 X2.3	Petroleum Products	Calculation
Water and Sediment	ASTM D2709	Petroleum Products	Centrifuge
Ash Content	ASTM D482	Petroleum Products	Muffle Furnace
Cetane Index	ASTM D976, ASTM D4737	Petroleum Products	Calculation
Cloud Point	ASTM D2500	Petroleum Products	Cloud Point Bath
Cloud Point	ASTM D5773	Petroleum Products	Phase Instrument
Pour Point	ASTM D97	Petroleum Products	Pour Point Bath
Lubricity by HFRR	ASTM D6079	Petroleum Products	High Frequency Reciprocating Rig (HFRR)
Particle Size and Count	ISO 4406	Petroleum Products	Laser Particle Counter
Cleveland Open Cup Flash Point and Fire Point	ASTM D92	Petroleum Products	Flash Point Tester
Evaporation Loss	ASTM D972	Petroleum Products	Hot Block
Foaming Seq I, 11, III	ASTM D892	Petroleum Products	Foam Test Bath
Elastomer Compatibility-Swell	FTM 3604, FTM 3603	Petroleum Products	Oven
Elastomer Compatibility-Swell, Tensile, Hardness	FTM 3433, FTM 3432	Petroleum Products	Hot Block
Thermal Stability and Corrosivity	FTM 3411	Petroleum Products	Hot Block
Shear Stability	ASTM D2603, ASTM D5621	Petroleum Products	Sonic Shear
Corrosion and Oxidative Stability	ASTM D4636, FTM 5307, FTM 5308	Petroleum Products	Hot Block
Hot Liquid Process Simulator (HLPS)	SAE ARP 5996	Petroleum Products	Hot Liquid Process Simulator (HLPS)
Vapor Pressure by Isoteniscope	ASTM D2879	Petroleum Products	Isoteniscope
Lead Corrosion	FTM 5321	Petroleum Products	Oil Bath
Corrosiveness of Lubricants	FTM 5305	Petroleum Products	Oven

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Corrosion Protection - Humidity Cabinet	ASTM D1748, FTM 5329	Petroleum Products	Humidity Cabinet
Corrosion Protection- Salt Spray Fog	ASTM B117	Petroleum Products	Salt Spray Cabinet
Rotating Pressure Vessel Oxidation Test (RPVOT)	ASTM D2272, ASTM D2112	Petroleum Products	Rotating Pressure Vessel Oxidation Test (RPVOT)
Precipitation Number	ASTM D91	Petroleum Products	Centrifuge
Wear Preventative Characteristics (4-ball)	ASTM D4172, ASTM D2266	Petroleum Products	4- ball
Low Temperature Stability	FTM 3458	Petroleum Products	Low Temp Chamber
Viscosity Index	ASTM D2270	Petroleum Products	Calculation
Vacuum Distillation	ASTM D1160	Biodiesel Products	Vacuum Distillation Apparatus
Cold Soak Properties	ASTM D7501	Biodiesel Products	Vacuum Filtration
Carbon Residue (Micro Test)	ASTM D4530	Petroleum Products	Coking Oven
Air Release Properties	ASTM D3427	Petroleum Products	Balance
Water Separability	ASTM D1401	Petroleum Products, Synthetic Fluids	Graduated Cylinder

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2811.



Jason Stine, Vice President