

Method	Test Description	Sample Size
ASTM D86 Modified	Distillation by Gas Chromatograph	400 mL
• ASTM D93	Flash Point, Pensky-Martins Closed Cup	250 mL
• ASTM D97	Pour Point	100 mL
• ASTM D130	Copper Strip Corrosion	100 mL
ASTM D189	Carbon Residue, Conradson	50 mL
ASTM D240	Gross Heat of Combustion (Specify BTUs/Gallon or /Pound)	20 mL
ASTM D323	Reid Vapor Pressure	125 mL
• ASTM D445	Kinematic Viscosity, 40°C or 100°C, New Oil	125 mL
ASTM D482	Total Ash	80 g
ASTM D524	Carbon Residue, Ramsbottom	50 mL
• ASTM D664	Acid Number	50 mL
ASTM D893	Insolubles, Pentane	25 mL
ASTM D974	Acid Number	50 mL
ASTM D976 & D4737	Cetane Index (Calculated from D1298 and D86)	500 mL
ASTM D1298	Density / API Gravity, Hydrometer	350 mL
ASTM D1500	Color	150 mL
ASTM D2274	Oxidation Stability (Petroleum Fuel Oil)	2 L
ASTM D2500	Cloud Point	100 mL
• ASTM D2622	Sulfur by XRF - Wavelength Dispersive	30 mL
ASTM D2709	Water and Sediment	100 mL
• ASTM D2887	Gas Chromatography - Carbon Distribution	10 mL
• ASTM D5133	Scanning Brookfield Viscosity (-5°C to -40°C)	50 mL
• ASTM D5185	Elemental Analysis by Inductively Coupled Plasma (No S)	10 mL
ASTM D5186	Aromatics in Diesel Fuel	150 mL
ASTM D5291	Carbon, Hydrogen and Nitrogen Content	30 mL
ASTM D5291	Nitrogen - Carlo Erba	30 mL
• ASTM D5453	Sulfur	10 mL
• ASTM D5453 & 5762	Sulfur and Nitrogen Package	20 mL
ASTM D6079	Lubricity by HFRR	10 mL
ASTM D6217	Particulate Contamination for Diesel Fuels	1 L
• ASTM D6304	Water by Karl Fischer	100 mL
ASTM D6371	Cold Filter Plug Point	150 mL
ASTM D7321	Particulate Contamination for Biodiesel Fuels	1 L
ASTM D7371	FAME Fatty Acid Methyl Esters Content in Diesel Fuel Oil	100 mL
• ASTM D7412	FTIR Analysis, In-Service Fluid, Phosphate Anti-Wear	50 mL
• ASTM D7414	FTIR Analysis, In-Service Fluid, Oxidation	50 mL
• ASTM D7415	FTIR Analysis, In-Service Fluid, Sulfate Content	50 mL
ASTM D7462	Oxidation Stability (Biodiesel)	2 L
ASTM D7462	Oxidation Stability (Biodiesel - B100 Option)	2 L
ASTM E659	Auto-Ignition Temperature, Liquid Chemicals	10 mL
EN 14078	FAME Fatty Acid Methyl Esters Content in Diesel Fuel Oil	100 mL
EN 14112	Oxidation Stability (Biodiesel & Petroleum Blends) Rancimat	100 mL
EN 15751	Oxidation Stability (Bio-based FAME Only) Rancimat	100 mL
SAVLAB BDICP	Elemental Analysis for Biodiesel Fuels	10 mL