

2022 Fuel Packages - Tests – Prices

Rev. 05/31/2022

Diesel Standard ASTM D975 – All Referee methods*

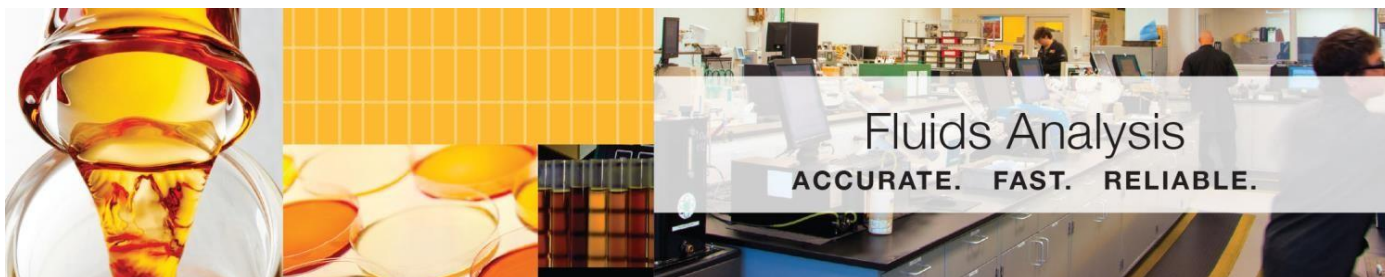
Part No.	Description	Testing	Method
ASTM D975	Diesel Fuel Quality Assurance Standard for #2-D S15 fuel. Designed to evaluate diesel fuel for use using only the referee methods. Allow 10-14 business days for sample processing.	Viscosity @ 40°C ^Distillation (90%) ^Cetane Number API Gravity Cloud Point Flash Point, Closed-Cup Sulfur Content by UVF Bottom Sediment & Water Visual Water/Debris ^Ash ^Carbon Residue- Ramsbottom 10 % Bottoms Copper Strip Corrosion Rating ^Lubricity, HFRR @ 60°C	D445 D86* D613* D1298 D2500* D93 D5453 D2709 D482 D524* D130 D6079

Diesel Standard ASTM D975 – With alternate methods

Testing	Description	Testing	Method
ASTM D975 ALT	Diesel Fuel Quality Assurance Standard for 2-D S15 fuel. Designed to evaluate diesel fuel for use using alternate methods. Allow 10-14 business days for sample processing.	Viscosity @ 40°C Simulated Distillation (90%) Cetane Index API Gravity Cloud Point Flash Point, Closed-Cup Sulfur Content by UVF Bottom Sediment & Water Visual Water/Debris ^Ash ^Carbon Residue- Ramsbottom 10 % Bottoms Copper Strip Corrosion Rating ^Lubricity, HFRR @ 60°C	D445 D2887 D4737 D1298 D7689 D93 D5453 D2709 D482 D524 D130 D6079

* Referee methods ASTM D86, D613, D2500, and D524 require additional sample volume and cost.

^ Testing performed by an outside ISO 17025 accredited laboratory.



Basic Product Contamination Check

Available as a prepaid SOP

Part No.	Description	Testing	Method
FA1	<p>Diesel Contamination Basic Minimum tests designed to evaluate contaminants in shipments of diesel fuel and/or frequent turnover of storage tanks.</p> <p>Bacteria test requires 72 hours.</p> <p>Allow 3-4 business days.</p> <p>¹Contingent on other testing</p>	<p>Viscosity @ 40°C Fine Metals by ICP Infrared Spectroscopy** Total Ferrous Debris by PqL Karl Fischer Water Bacteria API Gravity Particle Count Visual Water/Debris</p> <p>¹Microscope Membrane Photo and Membrane Patch</p>	<p>D445 D5185 ASTM D7418/E2412 SOP 725 D6304 SOP 712 SOP 16604 D7596</p> <p>SOP 729</p>

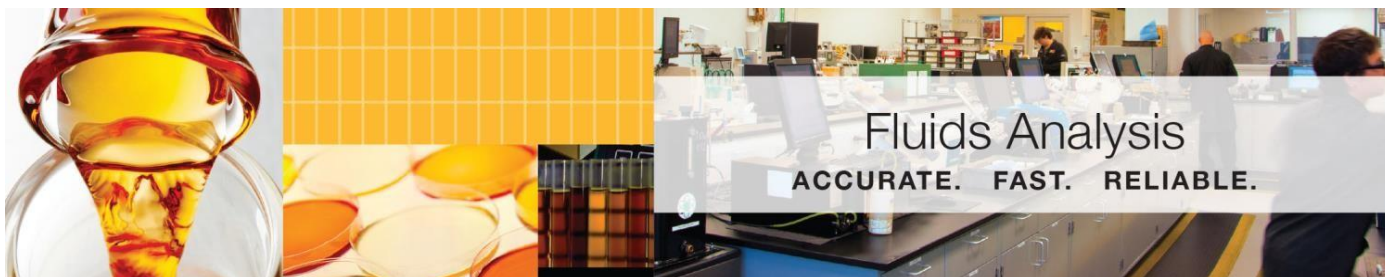
** Soot ASTM D7844, Oxidation ASTM D7414, Sulfate ASTM D7415, Phosphate (anti-wear) ASTM D7412, and Nitration ASTM D7624

Basic Product Verification Check

Available as a prepaid SOP

Part No.	Description	Testing	Method
FA2	<p>Diesel Verification Basic Minimum tests designed to evaluate diesel fuel for tanks with slower turnover.</p> <p>Allow 2 to 3 business days.</p>	<p>Viscosity @ 40°C Karl Fischer Water API Gravity Total Acid Number Biodiesel Content Flash Point Closed-Cup Sulfur Content by UVF Visual Water/Debris</p>	<p>D445 D6304 SOP 16604 D664 D7371 D93 D5453</p>





Advanced Product Contamination Check

Available as a prepaid SOP

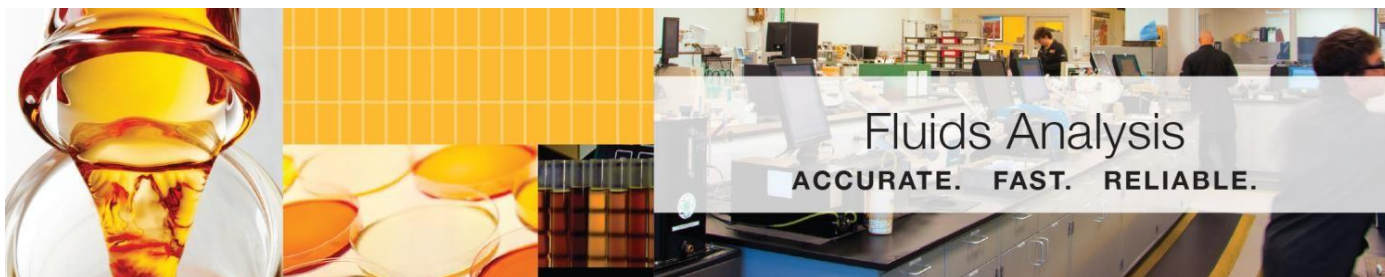
Part No.	Description	Testing	Method
FA3	<p>Diesel Contamination Advanced Designed to evaluate contaminants in shipments of diesel fuel that may be suspected to be contaminated.</p> <p>Bacteria test requires 72 hrs.</p> <p>Allow up to 4 business days.</p>	<p>Viscosity @ 40°C ICP Spectroscopy Infrared Spectroscopy** Total Ferrous Debris by PqL Karl Fischer Water Bacteria and Fungus API Gravity Particle Count Simulated Distillation (100%) Biodiesel Content Bottom Sediment & Water Microscope Membrane Photo and Membrane Patch Visual Water/Debris</p>	<p>D445 D5185 ASTM D7418/E2412 SOP 725 D6304 SOP 712 SOP 16604 D7596 D2887 D7371 D2709 SOP 729</p>

** Soot ASTM D7844, Oxidation ASTM D7414, Sulfate ASTM D7415, Phosphate (anti-wear) ASTM D7412, and Nitration ASTM D7624

Advanced Product Verification Check

Available as a prepaid SOP

Part No.	Description	Testing	Method
FA4	<p>Diesel Verification Advanced Designed to evaluate diesel fuel in critical systems. Suited for summer or winterized diesel fuel.</p> <p>Allow up to 4 business days.</p> <p>*Performed if sample is 100% Biodiesel ^Outsourced to ISO 17025 accredited laboratory</p>	<p>Viscosity @ 40°C Karl Fischer Water API Gravity Total Acid Number Biodiesel Content Flash Point Closed-Cup Sulfur Content by UVF Simulated Distillation (100%) Cetane Index Cloud/Pour Point Cold Filter Plug Point Visual Water/Debris</p> <p>*^Cold Soak Filtration</p>	<p>D445 D6304 D1298 D664 D7371 D93 D5453 D2887 D4737(D976*) D7689/D7346 D6371M D6217b</p>



Advanced Product Verification Check

Available as a prepaid SOP

Part No.	Description	Testing	Method
FA4M +MMP	<p>Diesel Cold Weather Verification Advanced</p> <p>Designed to evaluate cold flow performance potential of #2 ULSD, including an in-house analysis to detect the presence and severity of debris contamination and cold-induced soft particulate.</p> <p>Allow up to 6 business days.</p>	<p>Viscosity @ 40°C</p> <p>Karl Fischer Water</p> <p>API Gravity</p> <p>Fine Metals by ICP</p> <p>Biodiesel Content</p> <p>Flash Point Closed-Cup</p> <p>Sulfur Content by UVF</p> <p>Simulated Distillation (100%)</p> <p>Cetane Index</p> <p>Cloud/Pour Point</p> <p>Cold Filter Plug Point</p> <p>Modified Micro Patch</p> <p>Visual Water/Debris</p>	<p>D445</p> <p>D6304</p> <p>D1298</p> <p>D5185</p> <p>D7371</p> <p>D93</p> <p>D5453</p> <p>D2887</p> <p>D4737(D976*)</p> <p>D7689/D7346</p> <p>D6371M</p> <p>SOP 729/13495.1</p>

Advanced Product Contamination and Verification Check

Available as a prepaid SOP

Part No.	Description	Testing	Method
FA5	<p>Diesel Verification Advanced</p> <p>Designed to evaluate diesel fuel in tanks with slow turnover or winterized diesel fuel and evaluate contaminants in shipments of diesel fuel that may be suspected to be contaminated.</p> <p>Bacteria test requires 72 hrs.</p> <p>Allow up to 5 business days.</p> <p>¹Contingent on other testing [*]Performed if sample is 100% Biodiesel [^]Outsourced to ISO 17025 accredited laboratory</p>	<p>Viscosity @ 40°C</p> <p>ICP Spectroscopy</p> <p>Infrared Spectroscopy**</p> <p>Total Ferrous Debris by PqL</p> <p>Bacteria</p> <p>Particle Count</p> <p>Oxidation Stability</p> <p>Karl Fischer Water</p> <p>API Gravity</p> <p>Total Acid Number</p> <p>Biodiesel Content</p> <p>Flash Point Closed-Cup</p> <p>Sulfur Content by UVF</p> <p>Simulated Distillation (100%)</p> <p>Cetane Index</p> <p>Cloud/Pour Point</p> <p>Cold Filter Plug Point</p> <p>Bottom Sediment & Water</p> <p>Visual Water/Debris</p> <p>¹Microscope Membrane Photo and Membrane Patch</p> <p>[*]Cold Soak Filtration</p>	<p>D445</p> <p>D5185</p> <p>ASTM D7418/E2412</p> <p>SOP 725</p> <p>SOP 712</p> <p>D7596</p> <p>EN 15751</p> <p>D6304</p> <p>D1298</p> <p>D664</p> <p>D7371</p> <p>D93</p> <p>D5453</p> <p>D2887</p> <p>D4737(D976*)</p> <p>D7689/D7346</p> <p>D6371M</p> <p>D2709</p> <p>SOP 729</p> <p>D6217b</p>

** Soot ASTM D7844, Oxidation ASTM D7414, Sulfate ASTM D7415, Phosphate (anti-wear) ASTM D7412, and Nitration ASTM D7624





Filter Analysis

Part No.	Description	Testing	Method
FA Filter	<p>Filter Analysis Designed to determine contaminants that are plugging filter. Recommended for troubleshooting reduced filter life.</p> <p>Bacteria test requires 72 hours.</p> <p>Allow 72 hours for processing.</p>	<p>ICP Spectroscopy Total Ferrous Debris by PqL Coarse Metals by RFS Bacteria Microscope Membrane Photo and Membrane Patch</p>	<p>D5185 SOP 725 SOP 800 SOP 712 SOP 729</p>

