



Fluids Analysis

ACCURATE. FAST. RELIABLE.

Fuel Packages

Diesel Standard ASTM D975 – All Referee methods

| Part No. | Description | Testing | Method | Volume |
|------------------|--|---|--|----------|
| ASTM D975 | <p>Diesel Fuel Quality Assurance Standard for 2-D S15 fuel. Designed to evaluate diesel fuel for use using only the referee methods.</p> <p>Allow 10-14 business days for sample processing.</p> | <p>Viscosity @ 40°C #Distillation (90%) #Cetane Number API Gravity Cloud Point Flash Point, Closed-Cup Sulfur by UVF Bottoms Sediment & Water Visual Water/Debris #Ash #Carbon Residue-Ramsbottom Copper Strip Corrosion Rating #Lubricity, HFRR @ 60°C</p> | <p>D445 D86 D613 D1298 D2500 D93 D5453 D2709 D482 D524 D130 D6079</p> | 3 Liters |

Diesel Standard ASTM D975 – With alternate methods

| Testing | Description | Testing | Method | Volume |
|----------------------|---|---|---|---------|
| ASTM D975 ALT | <p>Diesel Fuel Quality Assurance Standard for 2-D S15 fuel. Designed to evaluate diesel fuel for use using alternate methods.</p> <p>Allow 10-14 business days for sample processing.</p> | <p>Viscosity @ 40°C Distillation (90%) Cetane Index API Gravity Cloud Point Flash Point, Closed-Cup Sulfur by UVF Bottoms Sediment & Water Visual Water/Debris #Ash #Carbon Residue- Ramsbottom Copper Strip Corrosion Rating #Lubricity, HFRR @ 60°C</p> | <p>D445 D2887 D4737 D1298 D7689 D93 D5453 D2709 D482 D524 D130 D6079</p> | 1 Liter |

Testing performed by an outside ISO 17025 accredited laboratory.

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



Basic Product Contamination Check

| Part No. | Description | Testing | Method | Volume |
|------------|--|--|--|---------|
| 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>*Contingent 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>*Microscope Membrane Photo and Membrane Patch</p> | <p>D445 D5185 D2412 SOP 725 D6304 SOP 712 D1298 D7596</p> <p>SOP 729</p> | 1 Liter |

Basic Product Verification Check

| Part No. | Description | Testing | Method | Volume |
|------------|--|--|--|---------|
| 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 Flashpoint Closed-Cup Sulfur by UVF Visual Water/Debris</p> | <p>D445 D6304 D1298 D664 D7371 D93 D5453</p> | 1 Liter |



Advanced Product Contamination Check

| Part No. | Description | Testing | Method | Volume |
|------------|---|--|--|---------|
| FA3 | <p>Diesel Contamination Advanced</p> <p>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</p> <p>ICP Spectroscopy</p> <p>Infrared Spectroscopy</p> <p>Total Ferrous Debris by PqL</p> <p>Karl Fischer Water</p> <p>Bacteria and Fungus</p> <p>API Gravity</p> <p>Particle Count</p> <p>Simulated Distillation</p> <p>Biodiesel Content</p> <p>Bottom Sediment & Water</p> <p>Microscope Membrane Photo and Membrane Patch</p> <p>Visual Water/Debris</p> | <p>D445</p> <p>D5185</p> <p>D2412</p> <p>SOP 725</p> <p>D6304</p> <p>SOP 712</p> <p>D1298</p> <p>D7596</p> <p>D2887</p> <p>D7371</p> <p>D2709</p> <p>SOP 729</p> | 1 Liter |

Advanced Product Verification Check

| Part No. | Description | Testing | Method | Volume |
|------------|---|--|---|---------|
| FA4 | <p>Diesel Verification Advanced</p> <p>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</p> | <p>Viscosity @ 40°C</p> <p>Karl Fischer Water</p> <p>API Gravity</p> <p>Total Acid Number</p> <p>Biodiesel Content</p> <p>Flashpoint Closed-Cup</p> <p>Sulfur Content UVF</p> <p>Simulated Distillation (100%)</p> <p>Cetane Index</p> <p>Cloud/Pour Point</p> <p>Cold Filter Plug Point</p> <p>Visual Water/Debris</p> <p>*Cold Soak Filtration</p> | <p>D445</p> <p>D6304</p> <p>D1298</p> <p>D664</p> <p>D7371</p> <p>D93</p> <p>D5453</p> <p>D2887</p> <p>D4737</p> <p>(D976*)</p> <p>D7689/D7346</p> <p>D6371M</p> <p>D7501</p> | 1 Liter |



Advanced Product Contamination and Verification Check

| Part No. | Description | Testing | Method | Volume |
|------------|---|---|--|---------|
| 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 4 business days.</p> <p>*Performed if sample is 100% Biodiesel</p> <p>^Contingent on other testing</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>Flashpoint Closed-Cup</p> <p>Sulfur Content 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>*Cold Soak Filtration</p> <p>^Microscope Membrane Photo and Membrane Patch</p> | <p>D445</p> <p>D5185</p> <p>D2412</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</p> <p>(D976*)</p> <p>D7689/D7346</p> <p>D6371M</p> <p>D2709</p> <p>D7501</p> <p>SOP 729</p> | 1 Liter |