

# Diesel Fuel Quality Analysis Kits

Fuel analysis can identify potential causes for fuel filter plugging, smoking, loss of power, poor injector performance, malfunctioning throttle position sensors and sticking valves. Testing also confirms a diesel fuel's sulfur content, biodiesel content and compliance with manufacturer specifications and standards for cleanliness that could affect equipment warranty requirements.

Schroeder Industries offers Troubleshooting and Diesel fuel quality test packages. All packages include pre-paid testing and the required number of fuel containers for sample.

**\*Total sample volume 32 oz required for all tests listed below**

Complete Fuel Quality and fuel filter ability | Fuel Stability Bio Content Test

| Complete Diesel Fuel Analysis   | Schroeder P/N: 02098012   | Includes   |  |
|---|---|--|--|
| <ul style="list-style-type: none"> <li>Complete fuel quality, fuel filter-ability, fuel stability and bio content test (8 critical ASTM tests with a single comprehensive relational summary)</li> <li>NOTE: Test 0209812 only can be run with as little as 14 oz. (402 mL) sample</li> </ul> | Filter Plugging Free Contamination  | Computability   Loss of Power                              |  |
|   | Filter Plugging   Injector Scoring   Corrosion                            | Flowability   Filterability   Di or Tri Glyceride Fall Out |  |
|   | All Cultures of Microbes  | Microscopic Composition                                    |  |
|   | Filter Plugging   Injector Scoring   Microbial Promoting   Cause of Water | Biodiesel Content  |  |

| Contamination Tests  | Schroeder P/N: 02098006 | Includes | Sample Amount |
|--|-------------------------|----------|---------------|
| <ul style="list-style-type: none"> <li>Identifies contamination from external sources - oil, biological growth, water, sediment</li> </ul>   | ICP                     |          | 2mL           |
|  | Flash Point             |          | 200mL         |
| <ul style="list-style-type: none"> <li>Identifies contamination to be the result of a change in the fuel's physical properties - low thermal stability may require use of an asphaltene conditioner</li> </ul> | Thermal Stability       |          | 120mL         |
|  | Water and Sediment      |          | 200mL         |
|  | Bacteria, Fungi, Mold   |          | 120mL         |

| Smoking Tests   | Schroeder P/N: 02098007 | Includes | Sample Amount |
|---|-------------------------|----------|---------------|
| <ul style="list-style-type: none"> <li>Identifies low cetane index or water contamination - loss of power, white smoke</li> </ul> | Sulfur                  |          | 50mL          |
|   | Cetane Index            |          | 100mL         |
| <ul style="list-style-type: none"> <li>Identifies excessive sulfur content - black smoke</li> </ul>                               | API Gravity             |          | 400mL         |
|   | Distillation            |          | 200mL         |
|   | Water and Sediment      |          | 200mL         |

| Filter Plugging Tests  | Schroeder P/N: 02093395 | Includes | Sample Amount |
|--|-------------------------|----------|---------------|
| <ul style="list-style-type: none"> <li>Identifies contamination from external sources specific to filter plugging - high particle count, biological growth</li> </ul>  | Thermal Stability       |          | 120mL         |
|  | Bacteria, Fungi, Mold   |          | 120mL         |
| <ul style="list-style-type: none"> <li>Identifies contamination due to a change in the fuel's physical properties - low thermal stability or insufficient cold weather capability for operating environment</li> </ul> | Pour Point              |          | 100mL         |
|  | Cloud Point             |          | 100mL         |
|  | Cold Filter Plug Point  |          | 100mL         |
|  | Particle Count          |          | 80mL          |

| Cleanliness Tests  | Schroeder P/N: 02098008 | Includes | Sample Amount |
|--|-------------------------|----------|---------------|
| <ul style="list-style-type: none"> <li>Identifies water contamination - can lead to smoking, biological growth and corrosion</li> </ul>  | Karl Fischer            |          | 10mL          |
|  | Particle Count          |          | 80mL          |
| <ul style="list-style-type: none"> <li>Identifies particulate contamination - can result in extreme wear in high pressure fuel systems which may cause premature injector failure</li> </ul> |                         |          |               |

| Wear Prevention Tests   | Schroeder P/N: 02098009 | Includes | Sample Amount |
|---|-------------------------|----------|---------------|
| <ul style="list-style-type: none"> <li>Identifies cause of wear - water contamination, excessive particles or insufficient lubricity</li> </ul> | Karl Fischer            |          | 10mL          |
|   | Particle Count          |          | 80mL          |
|   | Lubricity               |          | 20mL          |

## Troubleshooting Test Packages

Highlighted product eligible for QuickDelivery

Notes: All fuel samples must be shipped via UPS Ground.

Includes prepaid testing and one fuel can per product sample

# Diesel Fuel Quality Analysis Kits

\*Total sample volume 64 oz required for all tests listed below

## Fuel Quality Test Packages

| Summer Tests   | Schroeder P/N: 02098010 | Includes              | Sample Amount |
|--|-------------------------|-----------------------|---------------|
| <ul style="list-style-type: none"> <li>Identifies contamination from external sources - oil, biological growth, water, sediment</li> <li>Identifies contamination to be the result of a change in the fuel's physical properties - low thermal stability may require use of an asphaltene conditioner</li> </ul> |                         | Flash Point           | 200mL         |
|  |                         | Water and Sediment    | 200mL         |
|  |                         | Kinematic Viscosity   | 2mL           |
|  |                         | Sulfur                | 50mL          |
|  |                         | Cetane Index          | 100mL         |
|  |                         | API Gravity           | 400mL         |
|  |                         | Distillation          | 200mL         |
|  |                         | Thermal Stability     | 120mL         |
|  |                         | Bacteria, Fungi, Mold | 120mL         |
|  |                         | ICP                   | 2mL           |

| Winter Tests   | Schroeder P/N: 02098011 | Includes              | Sample Amount |
|--|-------------------------|-----------------------|---------------|
| <ul style="list-style-type: none"> <li>Identifies low cetane index or water contamination - loss of power, white smoke</li> <li>Identifies excessive sulfur content - black smoke</li> </ul> |                         | Flash Point           | 200mL         |
|  |                         | Water and Sediment    | 200mL         |
|  |                         | Kinematic Viscosity   | 2mL           |
|  |                         | Sulfur                | 50mL          |
|  |                         | Cetane Index          | 100mL         |
|  |                         | API Gravity           | 400mL         |
|  |                         | Distillation          | 200mL         |
|  |                         | Thermal Stability     | 120mL         |
|  |                         | Pour Point            | 100mL         |
|  |                         | Cloud Point           | 100mL         |
|  |                         | Bacteria, Fungi, Mold | 120mL         |
|  |                         | ICP                   | 2mL           |

Notes: All fuel samples must be shipped via UPS Ground.

Includes prepaid testing and two fuel cans per product sample