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.

HYDAC 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

Troubleshooting Test Packages

Complete Diesel Fuel Analysis	**Includes**	
• Complete fuel quality, fuel filter-ability, fuel stability and *bio* content test (8 critical ASTM tests with a single comprehensive relational summary NOTE: Test 02098012 only can be run with as little as 14 oz. (402 mL) sample	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	**Includes**	**Sample Amount**
• Identifies contamination from external sources - oil, biological growth, water, sediment • 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	ICP	2mL
	Flash Point	200mL
	Thermal Stability	120mL
	Water and Sediment	200mL
	Bacteria, Fungi, Mold	120mL
Smoking Tests	**Includes**	**Sample Amount**
• Identifies low cetane index or water contamination - loss of power, white smoke • Identifies excessive sulfur content - black smoke	Sulfur	50mL
	Cetane Index	100mL
	API Gravity	400mL
	Distillation	200mL
	Water and Sediment	200mL
Filter Plugging Tests	**Includes**	**Sample Amount**
• Identifies contamination from external sources specific to filter plugging - high particle count, biological growth • Identifies contamination due to a change in the fuel's physical properties - low thermal stability or insufficient cold weather capability for operating environment	Thermal Stability	120mL
	Bacteria, Fungi, Mold	120mL
	Pour Point	100mL
	Cloud Point	100mL
	Cold Filter Plug Point	100mL
	Particle Count	80mL
Cleanliness Tests	**Includes**	**Sample Amount**
• Identifies water contamination - can lead to smoking, biological growth and corrosion	Karl Fischer	10mL
• Identifies particulate contamination - can result in extreme wear in high pressure fuel systems which may cause premature injector failure	Particle Count	80mL
Wear Prevention Tests	**Includes**	**Sample Amount**
• Identifies cause of wear - water contamination, excessive particles or insufficient lubricity	Karl Fischer	10mL
	Particle Count	80mL
	Lubricity	20mL

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Fuel Quality Test Packages

Summer Tests	Includes	Sample Amount
• Identifies contamination from external sources - oil, biological growth, water, sediment • 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	Flash Point	200mL
	Water and Sediment	200mL
	Kinematic Viscosity	2mL
	Sulfur	50mL
	Cetane Index	100mL
	API Gravity	400mL
	Distillation	200mL
	Thermal Stability	120mL
	ICP	2mL
Winter Tests	**Includes**	**Sample Amount**
• Identifies low cetane index or water contamination - loss of power, white smoke • Identifies excessive sulfur content - black smoke	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