

**Savant, Inc.**  
**Laboratory Testing Services**

## Tests By Method

Method	Test	Sample Size	List Price
ASTM D 1084 B	T-Bar Viscosity	Varies	\$180.00
ASTM D 1084 B	Viscosity, T-Bar	Varies	\$180.00
ASTM D 1218	Refractive Index	20 ml	\$50.00
ASTM D 1264	Water Washout (Single Temperature)	50 grams	\$280.00
ASTM D 127	Drop Melting Point of Petroleum Wax	15 ml	\$90.00
ASTM D 128	Fat Content	100 ml	\$245.00
ASTM D 1298	API Gravity	100 ml	\$30.00
ASTM D 1298	Density, Hydrometer	100 ml	\$30.00
ASTM D 1298	Gravity, API	100 ml	\$30.00
ASTM D 130	Copper Strip Corrosion	250 ml	\$55.00
ASTM D 1331	Surface Tension	100 ml	\$165.00
ASTM D 1401	Emulsion Characteristics	100 ml	\$88.00
ASTM D 1478	Low Temperature Torque	10 g	\$228.00
ASTM D 1500	Color	150 ml	\$30.00
ASTM D 1552	Sulfur, LECO	10 ml	\$90.00
ASTM D 1662	Sulfur, Active	100 g	\$340.00
ASTM D 1748	Humidity Cabinet	1 liter	\$280.00
ASTM D 1748	Rust Protection by Humidity Cabinet	1 liter	\$280.00
ASTM D 189	Carbon Residue, Conradson	50 ml	\$75.00
ASTM D 2007	Clay Gel Analysis	100 ml	\$209.00
ASTM D 2070	Thermal Stability (Hydraulic Fluids)	300 ml	\$350.00
ASTM D 217	Cone Penetration, unworked & 60 strokes (grease)	800 grams	\$95.00
ASTM D 2265	Dropping Point	50 grams	\$95.00
ASTM D 2270	VI (includes KV at 40°C & 100°C)	125 ml	\$60.00
ASTM D 2270	Viscosity Index (includes KV at 40°C & 100°C)	125 ml	\$60.00
ASTM D 2272	RBOT (Rotating Bomb Oxidation Test) single run	150 ml	\$180.00
ASTM D 2272	Rotating Bomb Oxidation Test (RBOT) single run	150 ml	\$180.00
ASTM D 2272	Rotating Pressure Vessel Oxidation Test (RPVOT) single run	150 ml	\$180.00
ASTM D 2272	RPVOT (Rotating Pressure Vessel Oxidation Test) single run	150 ml	\$180.00
ASTM D 2273	Trace Sediment	200g	\$80.00
ASTM D 240	Combustion Heat, Gross (specify BTUs/gallon or /pound)	10 ml	\$160.00
ASTM D 240	Gross Heat of Combustion (specify BTUs/gallon or /pound)	10 ml	\$160.00
ASTM D 240	Heat of Combustion, Gross (specify BTUs/gallon or /pound)	10 ml	\$160.00
ASTM D 240 & 5291	Combustion Heat, Net	10 ml	\$320.00

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ASTM D 240 & 5291	Heat of Combustion, Net	10 ml	\$320.00
ASTM D 240 & 5291	Net Heat of Combustion	10 ml	\$320.00
ASTM D 2500	Cloud Point	100 ml	\$55.00
ASTM D 2509	Timken OK Load (Grease)	3400 g	\$350.00
ASTM D 2603	Sonic Shear, Oils	100 ml	\$195.00
ASTM D 2619	Hydrolytic Stability	250 ml	\$700.00
ASTM D 2622	Sulfur by XRF	30 ml	\$70.00
ASTM D 2670	Falex Pin & Vee Wear	200 ml	\$210.00
ASTM D 2670 Mod.	Falex Pin & Vee Wear, Close Step	200 ml	\$210.00
ASTM D 2670 Mod.	Falex Pin & Vee Wear, Long Step	200 ml	\$210.00
ASTM D 2670 Mod.	Falex Pin & Vee Wear, Very Long Step	200 ml	\$210.00
ASTM D 2699	Octane Number (Research Rating)	800 ml	\$200.00
ASTM D 2700	Octane Number (Motor Rating)	800 ml	\$200.00
ASTM D 2711	Demulsibility	2 liters	\$320.00
ASTM D 2711 EP	Demulsibility Extreme Pressure	2 liters	\$450.00
ASTM D 2717	Thermal Conductivity by DSC	100 ml	\$500.00
ASTM D 2782	Timkin Extreme Pressure	4 liters	\$350.00
ASTM D 2783	Four Ball Extreme Pressure	200 ml	\$278.00
ASTM D 2879	Vapor Pressure by Isoteniscope, Multiple Temps.	10 ml	\$340.00
ASTM D 2879	Vapor Pressure by Isoteniscope, Single Temp.	10 ml	\$340.00
ASTM D 2887	Gas Chromatography - Carbon Distribution	10 ml	\$200.00
ASTM D 2896	Base Number	50 ml	\$50.00
ASTM D 2896	Total Base Number	50 ml	\$50.00
ASTM D 2982	Glycol	20 ml	\$50.00
ASTM D 2983	Brookfield Viscosity, +20°C to -60°C (per temp.)	200 ml	\$90.00
ASTM D 2983	Viscosity, Brookfield +20°C to -60°C (per temp.)	200 ml	\$90.00
ASTM D 323	Reid Vapor Pressure	125 ml	\$75.00
ASTM D 323	Vapor Pressure, Reid	125 ml	\$75.00
ASTM D 3233	Falex Extreme Pressure	200 ml	\$190.00
ASTM D 3238	Carbon Distribution Analysis	250 ml	\$265.00
ASTM D 3427	Air Release	200 ml	\$220.00
ASTM D 3427	Bubble Separation	200 ml	\$220.00
ASTM D 3427	Gas Bubble Separation	200 ml	\$220.00
ASTM D 3520	Quenching Time	600 ml	\$275.00

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Method	Test	Sample Size	List Price
ASTM D 3524	Fuel Dilution, Diesel	10 ml	\$120.00
ASTM D 3525	Fuel Dilution, Gasoline	10 ml	\$120.00
ASTM D 3703	Peroxide Value	200 ml	\$140.00
ASTM D 3829 Mod.	Mini-Rotary Viscosity (MRV), Single Temperature	200 ml	\$160.00
ASTM D 3829 Mod.	MRV (Mini-Rotary Viscosity), Single Temperature	200 ml	\$160.00
ASTM D 3829 Mod.	Viscosity, MRV Single Temperature	200 ml	\$160.00
ASTM D 4052	Gravity, Specific (incl. API Gravity)	50 ml	\$35.00
ASTM D 4052	Specific Gravity (incl. API Gravity)	50 ml	\$35.00
ASTM D 4172	Four Ball Wear	100 ml	\$135.00
ASTM D 4291	Glycol	5 ml	\$165.00
ASTM D 4294	Sulfur by XRF	10 ml	\$55.00
ASTM D 4310	Sludging & Corrosion Tendency (up to 1000 hrs.)	1 liter	\$945.00
ASTM D 445	Kinematic Viscosity, 40°C or 100°C	125 ml	\$30.00
ASTM D 445	Kinematic Viscosity, Other Temperatures	125 ml	\$80.00
ASTM D 445	Viscosity, Kinematic 40°C or 100°C	125 ml	\$30.00
ASTM D 445	Viscosity, Kinematic Other Temperatures	125 ml	\$80.00
ASTM D 4530	Carbon Residue, Micro	150 ml	\$90.00
ASTM D 4683 & 6616	High Temperature High Shear Viscosity, New Oil	150 ml	\$115.00
ASTM D 4683 & 6616	High Temperature High Shear Viscosity, Used Oil	150 ml	\$150.00
ASTM D 4683 & 6616	TBS Viscosity, New Oil	150 ml	\$115.00
ASTM D 4683 & 6616	TBS Viscosity, Used Oil	150 ml	\$150.00
ASTM D 4683 & 6616	Viscosity, High Temperature High Shear New Oil	150 ml	\$115.00
ASTM D 4683 & 6616	Viscosity, High Temperature High Shear Used Oil	150 ml	\$150.00
ASTM D 4683 & 6616	Viscosity, TBS New Oil	150 ml	\$115.00
ASTM D 4683 & 6616	Viscosity, TBS Used Oil	150 ml	\$150.00
ASTM D 4683 Mod.	High Temperature High Shear Viscosity, Other Shear	150 ml	\$280.00
ASTM D 4683 Mod.	High Temperature High Shear Viscosity, Other Temp	150 ml	\$280.00
ASTM D 4683 Mod.	TBS Viscosity, Other Shear	150 ml	\$280.00
ASTM D 4683 Mod.	TBS Viscosity, Other Temperature	150 ml	\$280.00
ASTM D 4684	MRV/TP-1 Viscosity, Single Temperature	100 ml	\$105.00
ASTM D 4684	TP-1 Viscosity, Single Temperature	100 ml	\$105.00
ASTM D 4684	Viscosity, MRV/TP-1 Single Temperature	100 ml	\$105.00
ASTM D 4684	Viscosity, TP-1 Single Temperature	100 ml	\$105.00
ASTM D 4739	Base Number	20 ml	\$70.00

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Method	Test	Sample Size	List Price
ASTM D 4739	Total Base Number	20 ml	\$70.00
ASTM D 4742	TFOUT (Thin Film Oxidation Uptake Test)	50 ml	\$300.00
ASTM D 4742	Thin Film Oxygen Uptake Test (TFOUT)	50 ml	\$300.00
ASTM D 482	Ash, Total	80 g	\$60.00
ASTM D 482	Total Ash	80 g	\$60.00
ASTM D 4951	Elemental Analysis by Inductively Coupled Plasma	10 ml	\$50.00
ASTM D 4951	Inductively Coupled Plasma Elemental Analysis	10 ml	\$50.00
ASTM D 5133	Gelation Index	70 ml	\$185.00
ASTM D 5133	Scanning Brookfield Viscosity	50 ml	\$185.00
ASTM D 5133	Viscosity, Scanning Brookfield	70 ml	\$185.00
ASTM D 5182	FZG Gear Test	1 liter	\$2,700.00
ASTM D 5183	Coefficient of Friction by Four Ball	100 ml	\$200.00
ASTM D 5183	Four Ball - Coefficient of Friction	100 ml	\$200.00
ASTM D 5185	Elemental Analysis by Inductively Coupled Plasma	10 ml	\$50.00
ASTM D 5185	Inductively Coupled Plasma Elemental Analysis	10 ml	\$50.00
ASTM D 524	Carbon Residue, Ramsbottom	50 ml	\$80.00
ASTM D 525	Oxidation Stability (Gasoline)	200 ml	\$210.00
ASTM D 5275	FISST, 20 Passes	500 ml	\$160.00
ASTM D 5275	FISST, 30 Passes	500 ml	\$190.00
ASTM D 5275	FISST, 40 Passes	500 ml	\$220.00
ASTM D 5275	FISST, Other Passes	500 ml	Call
ASTM D 5275	Fuel Injector Shear Stability (FISST), 20 Passes	500 ml	\$160.00
ASTM D 5275	Fuel Injector Shear Stability (FISST), 30 Passes	500 ml	\$190.00
ASTM D 5275	Fuel Injector Shear Stability (FISST), 40 Passes	500 ml	\$220.00
ASTM D 5275	Fuel Injector Shear Stability (FISST), Other Passes	500 ml	Call
ASTM D 5275	Shear Stability, Fuel Injector (FISST) 20 Passes	500 ml	\$160.00
ASTM D 5275	Shear Stability, Fuel Injector (FISST) 30 Passes	500 ml	\$190.00
ASTM D 5275	Shear Stability, Fuel Injector (FISST) 40 Passes	500 ml	\$220.00
ASTM D 5275	Shear Stability, Fuel Injector (FISST) Other Passes	500 ml	Call
ASTM D 5291	Carbon Hydrogen Nitrogen Content	30 ml	\$290.00
ASTM D 5291	Nitrogen - Carlo Erba	30 ml	\$135.00
ASTM D 5293	Cold Cranking Simulator, Single Temperature	120 ml	\$80.00
ASTM D 5293 Mod.	Cold Cranking Simulator, Temperature Scan	120 ml	\$120.00
ASTM D 5453	Sulfur	10 ml	\$55.00

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Method	Test	Sample Size	List Price
ASTM D 5453 & 5762	Nitrogen & Sulfur Package	20 ml	\$98.00
ASTM D 5453 & 5762	Sulfur & Nitrogen Package	20 ml	\$98.00
ASTM D 5483	Oxidation Induction Time by DSC	20 ml	\$340.00
ASTM D 5621	Sonic Shear, Hydraulic Fluids	100 ml	\$195.00
ASTM D 5762	Nitrogen	10 ml	\$55.00
ASTM D 5800	Noack Volatility	150 ml	\$185.00
ASTM D 5800	Volatility by Noack	150 ml	\$185.00
ASTM D 5808	Chlorine	20 ml	\$98.00
ASTM D 5827	Sulfate Analysis (S04)	30 ml.	\$210.00
ASTM D 5930	Thermal Conductivity, Single Temperature	100 ml	\$430.00
ASTM D 5930	Thermal Conductivity, Temperature Scan	100 ml	\$860.00
ASTM D 5972	Freeze Point	100 ml	\$75.00
ASTM D 6082	Foaming, Sequence IV	1 liter	\$100.00
ASTM D 611	Aniline Point	100 ml	\$85.00
ASTM D 6200	Cooling Curve Analysis of Quench Oils	4 liters	\$298.00
ASTM D 6200	Quench Oil Cooling Curve Analysis	4 liters	\$298.00
ASTM D 6278	Kurt Orbahn Shear Stability - 30 Pass	1 liter	\$210.00
ASTM D 6278	Shear Stability, Kurt Orbahn - 30 Pass	1 liter	\$210.00
ASTM D 6278 mod.	Kurt Orbahn Shear Stability - 100 Pass	1 liter	\$370.00
ASTM D 6278 mod.	Kurt Orbahn Shear Stability - 90 Pass	1 liter	\$330.00
ASTM D 6278 mod.	Shear Stability, Kurt Orbahn - 100 Pass	1 liter	\$370.00
ASTM D 6278 mod.	Shear Stability, Kurt Orbahn - 90 Pass	1 liter	\$330.00
ASTM D 6304	Water by Karl Fischer	100 ml	\$60.00
ASTM D 6335	TEOST 33C	100 ml	\$300.00
ASTM D 6335	Thermo-oxidation Engine Oil Simulation Test (33C)	100 ml	\$300.00
ASTM D 6417	Simulated Distillation by Gas Chromatography	10 ml	\$190.00
ASTM D 6557	Ball Rust Test	125 ml	\$745.00
ASTM D 6594	High Temperature Corrosion Bench Test, 275°F	125 ml	\$570.00
ASTM D 6616 & 4683	High Temperature High Shear Viscosity, New Oil	150 ml	\$115.00
ASTM D 6616 & 4683	High Temperature High Shear Viscosity, Used Oil	150 ml	\$150.00
ASTM D 6616 & 4683	TBS Viscosity, New Oil	150 ml	\$115.00
ASTM D 6616 & 4683	TBS Viscosity, Used Oil	150 ml	\$150.00
ASTM D 6616 & 4683	Viscosity, High Temperature High Shear New Oil	150 ml	\$115.00
ASTM D 6616 & 4683	Viscosity, High Temperature High Shear Used Oil	150 ml	\$150.00

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**Laboratory Testing Services**

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Method	Test	Sample Size	List Price
ASTM D 6616 & 4683	Viscosity, TBS New Oil	150 ml	\$115.00
ASTM D 6616 & 4683	Viscosity, TBS Used Oil	150 ml	\$150.00
ASTM D 664	Acid Number	50 ml	\$45.00
ASTM D 664	Total Acid Number	50 ml	\$45.00
ASTM D 665	Rust Prevention 24 HOURS	2 liter	\$134.00
ASTM D 665	Rust Prevention 4 HOURS	1 liter	\$95.00
ASTM D 6793	Bulk Modulus	200 ml	\$340.00
ASTM D 6794	Engine Oil Water Tolerance (EOWT)	1 liter	\$550.00
ASTM D 6794	EOWT (Engine Oil Water Tolerance)	1 liter	\$550.00
ASTM D 6794	Water Tolerance, Engine Oil	1 liter	\$550.00
ASTM D 6795	Engine Oil Filterability (EOFT)	1 liter	\$350.00
ASTM D 6795	EOFT (Engine Oil Filterability)	1 liter	\$350.00
ASTM D 6795	Filterability, Engine Oil (EOFT)	1 liter	\$350.00
ASTM D 6922	Homogeneity & Miscibility	300 ml	\$255.00
ASTM D 6922	Miscibility & Homogeneity	300 ml	\$255.00
ASTM D 7097	TEOST MHT-4	50 ml	\$400.00
ASTM D 7097	Thermo-oxidation Engine Oil Simulation Test (MHT-4)	50 ml	\$400.00
ASTM D 7098	TFOUT (Thin Film Oxidation Uptake Test)	50 ml	\$300.00
ASTM D 7098	Thin Film Oxygen Uptake Test (TFOUT)	50 ml	\$300.00
ASTM D 7109	Kurt Orbahn Shear Stability - Includes 30 and 90 Passes	1000 mL	\$350.00
ASTM D 7317	Pentane Insolubles by Filtration	25 ml	\$225.00
ASTM D 86	Distillation	200 ml	\$95.00
ASTM D 874	Sulfated Ash	50 g	\$85.00
ASTM D 877	Dielectric Strength	800 ml	\$70.00
ASTM D 892	Foaming, Sequence I - III	1 liter	\$160.00
ASTM D 892 & 6082	Foaming, Sequence I - IV	1 liter	\$220.00
ASTM D 893	Insolubles, Pentane	25 ml	\$70.00
ASTM D 893	Pentane Insolubles	25 ml	\$70.00
ASTM D 92	Fire Point, Cleveland Open Cup	250 ml	\$40.00
ASTM D 92	Flashpoint and Firepoint, Cleveland Open Cup	250 ml	\$70.00
ASTM D 92	Flashpoint, Cleveland Open Cup	250 ml	\$40.00
ASTM D 924	Dielectric Constant (Relative Permittivity)	100 ml	\$66.00
ASTM D 924	Relative Permittivity (Dielectric Constant)	100 ml	\$66.00
ASTM D 93	Flashpoint, Pensky-Martins	250 ml	\$45.00

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## Tests By Method

Method	Test	Sample Size	List Price
ASTM D 94	Saponification Number	25 g	\$80.00
ASTM D 943	Oxidation Characteristics (2.0 TAN or 1000 Hrs.)	600 ml	\$520.00
ASTM D 943	Oxidation Characteristics (2.0 TAN or 2000 Hrs.)	600 ml	\$720.00
ASTM D 943	Oxidation Characteristics (2.0 TAN or 3000 Hrs.)	600 ml	\$920.00
ASTM D 97	Pour Point	100 ml	\$50.00
ASTM D 974	Acid Number/ Base Number/ Neutralization Number	50 ml	\$50.00
ASTM D 976	Cetane Index (calculated from D 1298 & D 86)	500 ml	\$103.00
ASTM E 1131	Soot by TGA	1 ml	\$103.00
ASTM E 1131	TGA Soot	1 ml	\$103.00
ASTM E 1269	Specific Heat	100 ml	\$315.00
CEC L-45-T Proc. A	KRL Shear (Tapered Roller Bearing Test) 4 Hours	100 ml	\$285.00
CEC L-45-T Proc. A	Tapered Roller Bearing Test (KRL Shear) 4 Hours	100 ml	\$285.00
CEC L-45-T Proc. B	KRL Shear (Tapered Roller Bearing Test) 8 Hours	100 ml	\$295.00
CEC L-45-T Proc. B	Tapered Roller Bearing Test (KRL Shear) 8 Hours	100 ml	\$295.00
CEC L-45-T Proc. C	KRL Shear (Tapered Roller Bearing Test) 20 Hours	100 ml	\$320.00
CEC L-45-T Proc. C	Tapered Roller Bearing Test (KRL Shear) 20 Hours	100 ml	\$320.00
CEC L-45-T Proc. Mod.	KRL Shear (Tapered Roller Bearing Test) 100 Hours	100 ml	\$520.00
CEC L-45-T Proc. Mod.	KRL Shear (Tapered Roller Bearing Test) 180 Hours	100 ml	\$825.00
CEC L-45-T Proc. Mod.	KRL Shear (Tapered Roller Bearing Test) 30 Hours	100 ml	\$345.00
CEC L-45-T Proc. Mod.	KRL Shear (Tapered Roller Bearing Test) 40 Hours	100 ml	\$378.00
CEC L-45-T Proc. Mod.	KRL Shear (Tapered Roller Bearing Test) 50 Hours	100 ml	\$411.00
CEC L-45-T Proc. Mod.	KRL Shear (Tapered Roller Bearing Test) 60 Hours	100 ml	\$445.00
CEC L-45-T Proc. Mod.	Tapered Roller Bearing Test (KRL Shear) 100 Hours	100 ml	\$520.00
CEC L-45-T Proc. Mod.	Tapered Roller Bearing Test (KRL Shear) 180 Hours	100 ml	\$825.00
CEC L-45-T Proc. Mod.	Tapered Roller Bearing Test (KRL Shear) 30 Hours	100 ml	\$345.00
CEC L-45-T Proc. Mod.	Tapered Roller Bearing Test (KRL Shear) 40 Hours	100 ml	\$378.00
CEC L-45-T Proc. Mod.	Tapered Roller Bearing Test (KRL Shear) 50 Hours	100 ml	\$411.00
CEC L-45-T Proc. Mod.	Tapered Roller Bearing Test (KRL Shear) 60 Hours	100 ml	\$445.00
EPA Test 24	Volatile Organic Content (VOC)	10 ml	\$75.00
FTM 1303	Floc Point	30 ml	\$365.00
FTM 203C	Stable Pour Point	200 ml	\$250.00
FTM 3456	Channeling Characteristics	1 liter	\$113.00
IP 346	PNA Analysis	100 ml	\$250.00
SAE Air 4978	FZG Gear Screening Test	150 ml	\$550.00

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**Tests By Method**

<b>Method</b>	<b>Test</b>	<b>Sample Size</b>	<b>List Price</b>
SAE J1165	Particle Count	100 ml	\$65.00
SAVLAB AFS	Anti-Foam Stripping Test	2 liters	\$540.00
SAVLAB CAP	Cone & Plate Viscosity	10 ml	\$120.00
SAVLAB CAP	Viscosity by Cone & Plate	10 ml	\$120.00
SAVLAB CMOT	Caterpillar Micro Oxidation Test	50 ml	\$1,240.00
SAVLAB DM	Dipole Moment (incl. Dielectric Constant & Refractive Index)	100 ml	\$410.00
SAVLAB ESOT	Engine Simulation Oxidation Test (ESOT)	1 liter	\$566.00
SAVLAB ESOT	ESOT (Engine Simulation Oxidation Test)	1 liter	\$566.00
SAVLAB FAC	Fatty Acid Composition	100 ml	\$129.00
SAVLAB FEI	FEI (Fuel Efficiency Index)	300 ml	\$315.00
SAVLAB FEI	Fuel Efficiency Index (FEI)	300 ml	\$315.00
SAVLAB FFA	Free Fatty Acids	100 ml	\$50.00
SAVLAB FGE	FoamGen Analysis	1 liter	\$912.00
SAVLAB GES	GE Locomotive Specification (GE Package 1)	1 liter	\$295.00
SAVLAB GES	GE Package 1 (GE Locomotive Specification)	1 liter	\$295.00
SAVLAB HPYC	Density, High Precision Pycnometer	100 ml	\$155.00
SAVLAB HPYC	Gravity, Specific (High Precision Pycnometer)	100 ml	\$155.00
SAVLAB HPYC	Specific Gravity (High Precision)	100 ml	\$155.00
SAVLAB IOD	Iodine Value	100 ml	\$130.00
SAVLAB IR	Fourier Transform Infra-Red, FTIR	50 ml	\$50.00
SAVLAB IR	FTIR, Fourier Transform Infra-Red	50 ml	\$50.00
SAVLAB LPYC	Density, Pycnometer	500 ml	\$70.00
SAVLAB MP	Melting Point	100 ml	\$80.00
SAVLAB PEI	PEI (Phosphorus Emissions Index) @ 250°C, 1 hr.	250 ml	\$470.00
SAVLAB PEI	Phosphorus Emissions Index (PEI) @ 250°C, 1 hr.	250 ml	\$470.00
SAVLAB PEI 165	PEI (Phosphorus Emissions Index) @ 165°C, 16 hr.	250 ml	\$550.00
SAVLAB PEI 165	PEI (Phosphorus Emissions Index) @ 165°C, 32 hr.	250 ml	\$1,200.00
SAVLAB PEI 165	PEI (Phosphorus Emissions Index) @ 165°C, 48 hr.	250 ml	\$1,800.00
SAVLAB PEI 165	PEI (Phosphorus Emissions Index) @ 165°C, 64 hr.	250 ml	\$2,350.00
SAVLAB PEI 165	Phosphorus Emissions Index (PEI) @ 165°C, 16 hr.	250 ml	\$550.00
SAVLAB PEI 165	Phosphorus Emissions Index (PEI) @ 165°C, 32 hr.	250 ml	\$1,200.00
SAVLAB PEI 165	Phosphorus Emissions Index (PEI) @ 165°C, 48 hr.	250 ml	\$1,800.00
SAVLAB PEI 165	Phosphorus Emissions Index (PEI) @ 165°C, 64 hr.	250 ml	\$2,350.00
SAVLAB PHD	pH Determination	150 ml	\$25.00

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Method	Test	Sample Size	List Price
SAVLAB PPA	Percent Particulates	25 ml	\$60.00
SAVLAB RBP	Boiling Point, Reflux	100 ml	\$100.00
SAVLAB RBP	Reflux Boiling Point	100 ml	\$100.00
SAVLAB RV	Fuel Stripping	Varies	\$83.00
SAVLAB RV	Rotovapping	Varies	\$83.00
SAVLAB TBR	High Temperature Low Shear Viscosity, Other Temp	150 ml	\$280.00
SAVLAB TBR	High Temperature Low Shear Viscosity, New Oil	150 ml	\$115.00
SAVLAB TBR	High Temperature Low Shear Viscosity, Other Shear	150 ml	\$280.00
SAVLAB TBR	High Temperature Low Shear Viscosity, Used Oil	150 ml	\$150.00
SAVLAB TBR	TBR Viscosity, New Oil	150 ml	\$115.00
SAVLAB TBR	TBR Viscosity, Used Oil	150 ml	\$150.00
SAVLAB TBR	Viscosity, High Temperature Low Shear New Oil	150 ml	\$115.00
SAVLAB TBR	Viscosity, High Temperature Low Shear Used Oil	150 ml	\$150.00
SAVLAB TBR	Viscosity, TBR New Oil	150 ml	\$115.00
SAVLAB TBR	Viscosity, TBR Used Oil	150 ml	\$150.00
SAVLAB VLT	Viscosity Loss Trapezoid (VLT), 20 Pass	1 liter	\$580.00
SAVLAB VLT	Viscosity Loss Trapezoid (VLT), 30 Pass	1 liter	\$610.00
SAVLAB VLT	Viscosity Loss Trapezoid (VLT), 40 Pass	1 liter	\$640.00
SAVLAB VLT	VLT (Viscosity Loss Trapezoid), 20 Pass	1 liter	\$580.00
SAVLAB VLT	VLT (Viscosity Loss Trapezoid), 30 Pass	1 liter	\$610.00
SAVLAB VLT	VLT (Viscosity Loss Trapezoid), 40 Pass	1 liter	\$640.00
SAVLAB XRF	Chlorine	20 ml	\$75.00

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## General Information

### TEST REQUESTS AND INFORMATION

Telephone	989-496-2301
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Email	savant@savantgroup.com
Website	www.savantgroup.com

Bill Lutz	Laboratory Manager
Rebecca Cox	Vice President
Ted Selby	Research & Development Director

### QUALITY CONTROL AND ASSURANCE

Savant is ISO 9001 certified. The laboratory also participates in the ASTM Test Monitoring Center (TMC) calibration program for bench tests, the ASTM Interlaboratory Crosscheck Program, and the European CEC annual round-robins where appropriate.

Savant is proud of its testing quality and accuracy. Tests will be rerun upon request to confirm data accuracy. If rerun test results fall within repeatability of original test results, both original and rerun tests will be billed to the customer. If rerun test results are not repeatable with original test results, subsequent analysis will be conducted to determine the source of error, accurate results will be reported to the customer, and only one test will be billed to the customer.

### INTERPRETATION AND CONSULTING

As a research and testing laboratory, Savant is particularly well qualified to offer interpretation of test results and technical advisory services regarding lubricant performance, formulation or applications. We specialize in solving problems related to the measurement of critical lubricant properties. Services should be arranged in advance and are provided at a reasonable additional charge beyond the testing fee.

### TEST AUTHORIZATION FORM

Clients are asked to enclose a copy of the Savant Test Authorization Form with every set of samples sent to Savant for testing.

### SAVLAB TEST METHODS

Some test methods have been developed in Savant Laboratory to provide special test information to our clients that may be unavailable from other sources. These internal test methods carry a SAVLAB method

### TEST RESULTS

Savant provides test results in tabular and/or graphical form as appropriate to an effective use of the data by our clients. Data is transmitted to clients by Email or facsimile. A final report is also sent by mail. Test results can also be transferred directly into Client databases by EDT (electronic data transfer) upon request.

### SAMPLE AND DATA STORAGE

Client samples submitted for testing are kept on site for a minimum of one year from date of receipt. Other arrangements can be made for the storage of samples at the client's request. Copies of reports and raw test data are kept by Savant for a minimum of five years.

**Savant, Inc.**  
**Laboratory Testing Services**

## General Information

### TEST FEES

Our fee structure is designed to give clients a choice depending on the urgency of testing requested. The turnaround times listed below apply to most tests, although certain specialized analyses may require additional time, which will be brought to your attention at the time the testing is requested.

**Standard Service:** Delivery of data to client by fax or email within ten working days of receipt of sample. A final report will be mailed.  
(Fee as listed)

**Expedited Service:** Delivery of data to client by phone, fax or email within five working days. A final report will be mailed.  
(30% Surcharge)

**Rush Service:** Delivery of data to client by phone, fax or email within one to three working days. Some tests require more time to complete and are not able to be included in our rush service. A final report will be mailed.  
(50% Surcharge)

### DISCOUNTS

The following discounts apply per single purchase or single release against a blanket purchase order.

**Multiple Tests:** 10% Discount -- Six to eleven different tests on the same oil.  
20% Discount -- Twelve or more different tests on the same oil.

**Multiple Oils:** 10% Discount -- Six to eleven oils receiving the same test.  
20% Discount -- Twelve or more oils receiving the same test.

### PAYMENT TERMS

Net 30 days with approved credit. A purchase order is required unless other arrangements have been made. A late payment charge of 1.5% per month (18% annual rate) may be applied to past due invoices. Payments should be made payable and mailed to:

Savant, Inc.  
4800 James Savage Rd.  
Midland, MI 48642 USA

Mastercard, Visa, Discover, and American Express credit cards are also accepted.

### SAMPLING AND MAILING SUPPLIES

Plastic sample bottles with shipping boxes can be purchased for \$3.70 each. Specify 4 oz. or 8 oz. bottle size.

Re-usable pump with 100 feet of disposable plastic tubing can be purchased for \$66.00. Additional plastic tubing can be purchased for \$12.00 per 100 feet.