



Fuels & Lubricants Lab Specification Testing by Product

	Engine Oil (ASTM D4485, SAEJ300)	Diesel Fuel (ASTM D975)	Motor Gas (ASTM D4814)	ATF (AISE 121-124, 129)	ATF GM/Ford
Physical Properties	Viscosity D445 MRV D4684 Gel Index D5133 CCS D5293 HTHS D4683 HT Foaming Tendencies D6082 Foaming Tendencies D892 Noack Volatility D5800	Viscosity D445 Density D4052 Cloud Point D2500 Cold Filter Plugging IP 309 Particulate Matter D5452 Flash D93 Cetane Index D976 Carbon Residue D524 Ash D482 Vacuum Distillation D1160	Density D1298 Vapor D5191 Distillation D86 Vapor Pressure D5191 Cloud D2500 Existent Gum D381	Viscosity D445 Brookfield Viscosity D2983 Flash/Fire D92 Pour D97 Foaming Tendencies D892	Viscosity D445 Flash Point D92 Foaming Tendencies D892 Brookfield Viscosity D2983 Color D1500 HTHS Viscosity D4683 Noack Volatility D5800 Fire Point D92
Chemical Properties	ICP D5185 GC Volatility D6417	Sulfur D2622 Sulfur D5453	Sulfur D2622 Lead D3237 Phosphorus D3231	Elastomer Compatibility GM – 6297M Sulfur – D4951 ICP Scan – D4951	ICP Scan D4951 Sulfur D4951
Wear Properties				Hydraulic Pump D2882/D7043 4-Ball Wear D4172	Hydraulic Pump D2882/D7043 FZG D5182 4-Ball Wear D4172
Extreme Pressure Properties					Falex D3233 Timken D2782
Oxidation and/or Corrosion Properties		Copper Corrosion D130 Oxidation D2274	Copper Corrosion D130	Copper Corrosion D130 Rust D665	Copper Corrosion D130 Rust D665
Water and Water Tolerance	Water Tolerance Engine Oil Filterability	Water & Sediment D1796	Karl Fisher D1744		
	Industrial Gear Oil (AISE 224)	Hydraulic Fluid (AISE 127)	Grease (AISE 370)	Turbine Oil (AISE 120)	Fire Resistant Fluids (AISE 168, 170-172, 175)
Physical Properties	Viscosity D445 Density D4052 Flash D92 Pour D97	Viscosity D445 Low Temperature Cycling S201	Penetration D217 Roll Stability D1831 Drop Point D2265 Oil Separation S41 Grease Mobility S75 Grease Mobility LVM	Viscosity D445 Density D4052 Flash D92 Pour D97 Cloud D2500	Viscosity D445 Low Temperature Cycling S201 Alkalinity
Wear Properties	FZG S70 4-Ball Wear S205	D2882/D7043 4-Ball Wear S205	4-Ball Wear D2266	Hydraulic Pump D2882/D7043	Hydraulic Pump D2882/D7043 4-Ball Wear
Extreme Pressure Properties	4-Ball EP D2783 Timken D2782		4-Ball EP D2596 Timken D2509		
Oxidation and/or Corrosion Properties	Copper Corrosion D130 Rust D665 Oxidation S200	Rotary Bomb D2272 Oxidation D943 Rust D665	Copper Corrosion D4048 Oxidation D942	Rotary Bomb D2272 Oxidation D943 Rust D665	Rust D665
Water and Water Tolerance	Demulsibility D2711	Water Separability D1401	Water Washout D1264 Water Spray Off D4049	Water Separability D1401	