

Hydraulic Fluid Tests

Gold bullets indicate ISO/IEC 17025:2005 Accreditation

Method	Test Description	Sample Size
• ASTM D92	Flash Point, Cleveland Open Cup	250 mL
ASTM D130	Copper Strip Corrosion	100 mL
• ASTM D445	Kinematic Viscosity, 40°C or 100°C, New Oil	125 mL
• ASTM D445	Kinematic Viscosity, Below 0°C	125 mL
• ASTM D445	Kinematic Viscosity, 0°C and Above	125 mL
• ASTM D664	Acid Number	50 mL
ASTM D665	Rust Prevention 4 Hours (Method A or B)	1 L
ASTM D665	Rust Prevention 24 Hours (Method A or B)	1 L
• ASTM D892	Foaming, Sequence I - III (Specify option A if required)	1 L
ASTM D943	Oxidation Characteristics (2.0 TAN or 1000 Hours)	600 mL
ASTM D1401	Emulsion Characteristics / Water Separability	100 mL
ASTM D2070	Thermal Stability (Hydraulic Fluids)	300 mL
ASTM D2112	Oxidation Stability of Inhibited Oil by Pressure Vessel at 140°C	150 mL
ASTM D2272	Rotating Pressure Vessel Oxidation Test (RPVOT) Single Run	150 mL
ASTM D2619	Hydrolytic Stability	250 mL
ASTM D2670	Falex Pin & Vee Wear	200 mL
• ASTM D2983	Brookfield Viscosity, +20°C to -60°C (Per Temperature)	200 mL
ASTM D3427	Air Release / Gas Bubble Separation	500 mL
ASTM D4172	Four Ball Wear	100 mL
• ASTM D5185	Elemental Analysis by Inductively Coupled Plasma (No S)	10 mL
ASTM D5621	Sonic Shear, Hydraulic Fluids	100 mL
• ASTM D6304	Water by Karl Fischer	100 mL
• ASTM D7624	FTIR Analysis, In-Service Fluid, Nitration	50 mL
ISO 4406	Particle Count	100 mL



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