

Wind Turbine Lubricant Tests

Gold bullets indicate ISO/IEC 17025:2017 Accreditation

In-Service Condition Monitoring

Method	Test Description	Sample Size
• ASTM D97	Pour Point	100 mL
• ASTM D445	Kinematic Viscosity	125 mL
• ASTM D664	Acid Number	50 mL
• ASTM D892	Foaming, Sequence I - III	1 L
ASTM D893	Insolubles, Pentane	25 mL
ASTM D974	Acid Number	50 mL
ASTM D2500	Cloud Point	100 mL
ASTM D2622	Sulfur by XRF - Wavelength Dispersive	30 mL
• ASTM D2983	Brookfield Viscosity, +20°C to -60°C (Per Temperature)	60 mL
• ASTM D4739	Base Number	20 mL
• ASTM D4951	Elemental Analysis by Inductively Coupled Plasma, Wear Metals	10 mL
• ASTM D5133	Scanning Brookfield Viscosity	50 mL
• ASTM D5185	Elemental Analysis by Inductively Coupled Plasma (No S)	10 mL
• ASTM D6304	Water by Karl Fischer	100 mL
• ASTM D7216	Elastomer Compatibility	1.2 L
• ASTM D7414	FTIR Analysis, In-Service Fluid, Oxidation	50 mL
ISO 4406	Particle Count	50 mL

Qualification

Method	Test Description	Sample Size
• ASTM D92	Flash Point and Fire Point, Cleveland Open Cup	250 mL
• ASTM D97	Pour Point	100 mL
• ASTM D130	Copper Strip Corrosion	100 mL
ASTM D287	API Gravity of Crude Petroleum / Petroleum Products (Hydrometer)	250 mL
• ASTM D445	Kinematic Viscosity	125 mL
• ASTM D664	Acid Number	50 mL
ASTM D665	Rust Prevention 24 Hours (Method A or B)	1 L
ASTM D665	Rust Prevention 4 Hours (Method A or B)	1 L
ASTM D974	Acid Number	50 mL
ASTM D1401	Emulsion Characteristics, Water Separability	100 mL
• ASTM D2270	Viscosity Index (Includes D445 at 40°C and 100°C)	125 mL
ASTM D2711	Demulsibility	2 L
ASTM D2782	Timken Extreme Pressure (Specify Starting Load)	4 L
• ASTM D2783	Four Ball Extreme Pressure	200 mL
ASTM D2893	Oxidation Characteristics Extreme Pressure	500 mL
• ASTM D2983	Brookfield Viscosity	60 mL
• ASTM D4172	Four Ball Wear	100 mL



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