

	METHODS	VOLUMES (ml)	NOTES
<b>TRANSFORMER TESTS:</b>			
Dissolved Gas Analysis	ASTM D3612C	30 – 50	A
<b>OIL QUALITY TESTS:</b>			
Moisture Content in Oil	ASTM D1533B	20	A, B
Interfacial Tension	ASTM D971	50	B
Acid Number	ASTM D974	15	B
Color Number	ASTM D1500	10	B
Visual and Sediment Examination	ASTM D1524	10	B
Dielectric Breakdown (Disk)	ASTM D877	400	B
Dielectric Breakdown (VDE)	ASTM D1816	400	B
Power Factor (25°C or 100°C)	ASTM D924	100	B
Corrosive Sulfur	ASTM D1275 (A or B) / CIGRE	250	B
Particle Count	Laser / ISO Code	80	B
Fault Metals Analysis (8 Metals)	ASTM D3635 (ICP)	10	B
Sediment and Soluble Sludge	ASTM D1698	50	B
Microscopy Analysis (Solids Contamination)	WDS – Micro	10	B
Filtering Characteristics (Carbonyls)	WDS – Carbonyl	25	B
Furanic Compounds (Insulation Degradation)	ATDM D5837	20	B
Passivator Content	WDS – Passivator	20	B
Oxidation Inhibitor (DBPC)	ASTM D2668	10	B
Resistivity	ASTM D1169	100	B
<b>OIL PHYSICAL PROPERTY TESTS:</b>			
Specific Gravity	ASTM D1298	10	B
Kinematic Viscosity	ASTM D445	10	B
Refractive Index	ASTM D1807	10	B
Flash Point	ASTM D92	100	B, C
Fire Point	ASTM D92	100	B, C
Pour Point	ASTM D97	75	B
<b>SOLID INSULATION TESTS:</b>			
Dielectric Breakdown	ASTM D149 (A or B)	Call	
Degree of Polymerization (Paper)	ASTM D4243	16 cm <sup>2</sup>	
Trace Metals (Paper/Sludge)	WDS – ICP Scan	Call	
<b>SULFUR HEXAFLUORIDE (SF<sub>6</sub>) TESTS:</b>			
Gas Decomposition Analysis	ASTM D2685	180	D
Moisture Content	WDS – SF <sub>6</sub> Moisture	180	D
Dielectric Breakdown	WDS – SF <sub>6</sub> Dielectric	180	D
<b>PUMP and LUBRICATING OILS TESTS:</b>			
Foaming Characteristics	ASTM D892	100	B
Metals Analysis (18 Metals)	WDS – ICP Scan	10	B
<b>ENVIRONMENTAL TESTS:</b>			
Polychlorinated Biphenyls (PCBs)	EPA 8082 / ASTM D4059	10	B, E
Total Petroleum Hydrocarbons (TPH)	EPA 8085mod	Call	
Total Recoverable Petro. Hydrocarbons (TRPH)	EPA 418.1	Call	
Benzene, Toluene, Ethyl Benzene, Xylenes (BTEX)	EPA 8020	Call	
Asbestos (Bulk-PLM & Air-PCM)	NIOSH 7400	1 gram	F
Asbestos (TEM)	TEM	1 gram	F

**Notes:** **A** A glass syringe is recommended for D3612C and D1533B sampling and can be provided on loan at no charge.  
**B** Weidmann Diagnostic Solutions provides plastic containers and/or glass vials for sampling at no charge.  
**C** The same oil can be used for both Flash and Fire Point analysis.  
**D** Weidmann Diagnostic Solutions provides sampling equipment and containers required for SF<sub>6</sub> testing.  
**E** PCB containers must meet cleanliness requirements for oils, liquids, soils, wipes, or solids.  
**F** A special sampling container is required for air or water samples.

30 ml ≈ 1 fl oz    120 ml ≈ 4 fl oz    240 ml ≈ 8 fl oz    480 ml ≈ 16 fl oz    960 ml ≈ 32 fl oz

Please call **Weidmann Diagnostic Solutions** for sampling containers and technical support.

Indianapolis, IN - 317.888.7288  
 Baton Rouge, LA - 225.261.5177  
 Houston, TX - 713.595.1030

Bensalem, PA - 215.639.8599  
 Waukesha, WI - 262.408.5932  
 Calgary, AL - 403.203.0550

Sacramento, CA - 916.455.2284  
 Lake Hamilton, FL - 863.438.8300  
 Burlington, ON - 905.632.8697