

**WEIDMANN DIAGNOSTIC SOLUTIONS INC.**  
Sampling Volume Requirements

	Method	Volume(ml)	Notes
<b>Transformer tests</b>			
Dissolved Gas Analysis	ASTM D3612C	20	A
<b>Oil Quality tests:</b>			
Moisture Content in Oil	ASTM D1533	10	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	ASTM D877	400	B
Dielectric Breakdown	ASTM D1816	700	B
Power Factor @ 25 or 100 °C	ASTM D924	200 (each temp)	B
Corrosive Sulfur	ASTM D1275 (A or B)	500	B
Corrosive Sulfur	CIGRE	100	
Particle Count	ASTM D6786	100	B
Fault Metals Analysis (8 Metals)	ASTM D7151	20	B
Sediment and Soluble Sludge	ASTM D1698	100	B
Microscopic Analysis	WDS-Micro	100	B
Filtering Characteristics (Carbonyls)	WDS-Carbonyls	100	B
Furanic Compounds( Insulation Degradation)	ASTM D5837	40	B
Passivator Content	IEC 60666	20	B
Oxidation inhibitor	ASTM D2668	20	B
Resistivity	ASTM D1169	200	B
<b>Oil Physical Property Tests:</b>			
Specific Gravity	ASTM D4052	10	B
Specific Gravity	ASTM D1298	300	B
Kinematic Viscosity	ASTM D445	10	B
Refractive Index	ASTM D1807	10	B
Flash Point	ASTM D92	100	B
Fire Point	ASTM D92	100	B
Pour Point	ASTM D97	75	B
<b>Solid Insulation Tests:</b>			
Degree of Polymerization	ASTM D4243	32 cm <sup>2</sup>	
Trace Metals(Paper/Sludge)	ASTM D7151	Call	
Moisture	IEC-60814	3 g	
<b>Sulfur Hexafluoride (SF6) Tests:</b>			
Gas Decomposition Analysis	ASTM D2685	180	C
Moisture content	ASTM D2029	180	C
Dielectric Breakdown	ASTM D2477	180	C
<b>Pump and Lubricating oils tests:</b>			
Foaming Characteristics	ASTM D892	Call	B
Metals Analysis(18 Metal)	D7151	20	B
<b>Environmental tests:</b>			
Polychlorinated Biphenyls (PCBs)	EPA 8082, ASTM	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	2 g	F
Asbestos (TEM)	TEM	2 g	F

**Notes:** **A** A glass syringe is recommended for ASTM D3612 and D1533 sampling and can be provided on loan at no charge.  
**B** Weidmann Diagnostic Solutions provides glass or plastic containers and vials for sampling at no charge  
**C** Weidmann Diagnostic Solutions provide sampling equipment and containers required for SF6 testing.  
**D** A special sampling container is required for air or Headspace sample contact your local WDS lab  
**E** PCB containers must meet cleanliness requirements for oils, liquids, soils, wipes or solid.  
**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 INC.** for sampling containers and technical support.

**Sacramento, CA – 916 455 2284; Denver, CO – 303 371 3326; Lake Hamilton, FL – 863 438 8300; Indianapolis, IN – 317 888 7288; Canton, MA – 781 562 0611; North Canton, OH – 330 244 1522; Bensalem, PA – 215 639 8599; Houston, TX – 713 595 1030; Waukasha WI – 262 408 5932; Calgary, AL- 403 203 0550; Burlington, ON – 905 632 8697; Montréal, QC – 514 637 0888; Arteaga, MX-CO – 52 (844) 413 0600 X201**