AVO Diagnostic Services
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For Lab Use Only	

Company Name: _____

Address: _____

Contact: _____ Phone: _____

Email: _____ Fax: _____

P.O.#: _____ Project ID: _____

Special Requests: _____

◉ **Routine** ○ **Rush**

Date Needed:

Date Sampled:	
Sampled By:	
Syringe #:	
Bottle #:	

EQUIPMENT

○ Transformer ○ Conservator ○ Main(Bottom) ○ Top ○ Container ○ Drum ○ Tanker ○ Network ○ Switch ○ Box ○ Transformer

○ OCB ☐ ○ Bushing ○ Potential Transformer

○ LTC ○ Selector ○ Common ○ Transfer ○ Regulator ○ Wind Power Transformer ○ Grd Std

○ Line End ○ Neutral End ○ Recloser ○ InterTie ○ Grd ZigZag ○ StepUp

LTC Model: ○ Recloser ○ Transformer / Rectifier for Electrostatic Precipitator

# of Operations (LTC and OCB only) ○ Cable ○ Rectifier -- Other

○ Solar Collector T ○ Conservator ○ Main(Bottom) ○ Top ○ Solar Inverter T ○ Solar Ground T ○ Main(Bottom) ○ Top

○ Other _____

Equipment Location: _____ **Serial No.:** _____ **Equipment ID:** _____

SAMPLE

○ Mineral Oil ○ Silicone ○ Cable Oil ○ Askarel ○ Natural Ester Type (i.e. BioTemp, Envirotemp FR3, Midel eN 1204, Midel eN 1215) _____

○ Synthetic Ester ☐ Envirotemp®200 ☐ MIDEL 7131 ☐ Other _____ ○ LFH ☐ R-Temp® ☐ Other _____

○ Perchloroethylene ☐ WECOSOL ☐ Transclean ☐ Other _____ ○ Other

BREATHING	○ Sealed ○ Conservator ○ Free Breathing / Vented ○ Unknown
STATE	○ In Service ○ New Oil (Bulk Only) ○ Processed ○ Reclaimed ○ New Equipment

Manufacturer		KVA		Impedance	
Year		Bank		Phase	
Volume		kV Low		Sample Temp.(°C)	
	○ US Gallons ○ Imp. Gallons ○ Liters	kV High		Known PCB Content (ppm)	

Equipment Fluid Quality

Transformer Fluid Analysis Test Packages

☐ Basic(ASTM D3612C, D1533, D971, D974, D1500/D1524, D1816, & D4052) Oil, Ester

☐ Enhanced ("Basic" Plus ASTD924 @ 25°C & D2668) Mineral Oil Only

☐ Comprehensive ("Enhanced" Plus ASTM D6786 & D5837) Mineral Oil Only.

☐ Silicone (ASTM D3612C, D1533, D974, D2129/D1524, D21816, & D4052)

☐ Ester Enhanced (ASTM D3612C, D1533, D971, D974, D1500/D1524, D1816, & ASTM D924@25°C)

☐ Ester Comprehensive("Ester Enhanced" Plus (ASTM AD6786 & D5837)

For non-transformer diagnostic evaluation packages please visit us at www.avodiagnostics.com to access the sample data sheet for your specific need and location.

Analysis Listed Individually

☐ Dissolved Gas Analysis (ASTM D3612C)

☐ Resistivity (ASTM D1169) ☐ 100°C ☐ 25°C

☐ Color # / Visual (ASTM D1500/D1524) (oil, esters)

☐ Color # / Visual (ASTM D2129/D1524) (Silicone, Askarel, and Perc Only)

☐ Specific Gravity ☐ ASTM D4052 ☐ ASTM D1298

☐ Moisture in Oil (ASTM D1533)

☐ Dielectric Breakdown (ASTM D1816) ☐ 1mm ☐ 2mm

☐ Dielectric Breakdown (ASTM D877)

☐ Power Factor (ASTM D924) ☐ 25°C ☐ 100°C ☐ Other _____

☐ Interfacial Tension (ASTM D971)

☐ Acid Number (ASTM D974)

☐ Corrosive Sulfur ☐ ASTM D1275(copper) ☐ ASTM D1275(silver) ☐ IEC62535 (CCD)

☐ Furan Analysis (ASTM D5837)

☐ Methanol / Ethanol (ASTM D806)

☐ Oxidation Inhibitor (ASTM D2668)

☐ PCB (EPA 8082a /ASTM D4059)

☐ Viscosity (ASTM D445) ☐ 40°C ☐ Other _____

☐ Fire Point (ASTM D92)

☐ Flash Point (ASTM D92)

☐ Microscopic Evaluation (AVO Diagnostics))

☐ Particle Count (ASTM D6786)

☐ Passivator (IEC 60666)

☐ Pour Point (ASTM D97)

☐ Refractive Index (ASTM D1807)

☐ Sediment & Soluble Sludge (ASTM D1698)

☐ Metals-Fault (ASTM D7151) ☐ All (or pick below) ☐ Ag ☐ Al ☐ Cu ☐ Fe ☐ Pb ☐ Si ☐ Sn ☐ Zn

☐ Metals-Wear (ASTM D7151) (18 Metal Package)

☐ DBDS (IEC 62697)

Notes: :

☐ Other _____

Solid Insulation

☐ Degree of Polymerization (IEC 60450)

☐ Moisture in Cellulose (IEC 60814)