SDMyers ACTS 4:12

DIAGNOSTIC ANALYTICAL SERVICES

Test Packages

		LIQUID SCREEN TESTS													
		Interfacial Tension (IFT)	Dielectric Breakdown Voltage (ASTM D1816)	Acid Number	Specific Gravity (Relative Density)	Color	Visual	Karl Fischer Moisture (KF)	Dissolved Gas Analysis (DGA)	Liquid Power Factor (PF)	Oxidation Inhibitor Content (DBPC)	Particle Count/Filming Compounds (PC/FC)	Dissolved Metals (ICP)	Furanic Compounds (FUR)
TRANSFORMERS FILLED WITH MINERAL OIL															
CriticalPac	Routine tests for mission-critical transformers	x	x	x	x	x	x	x	x	x	x		x	x
PowerPac 1	Baseline tests for system-critical transformers	x	x	x	x	x	x	x	x	x	x		x	
PowerPac 2	Routine tests for system-critical transformers	x	x	x	x	x	x	x	x	x	x			
DistributionPac	Routine tests for non-critical transformers	x	x	x	x	x	x	x	x					
OTHER EQUIPMENT FILLED WITH MINERAL OIL															
LTC Complete	All LTCs critical to your operation	x	x	x	x	x	x	x	x			x		
LTCPac	Load Tap Changers	x	x	x	x	x	x	x	x					
OCBPac	Oil Circuit Breakers	x	x	x	x	x	x	x	x					
SwitchPac	Switchgear	x	x	x	x	x	x	x	x					
RegPac Single	Regulators under 500 gallons	x	x	x	x	x	x	x	x					
RegPac Three	Regulators over 500 gallons	x	x	x	x	x	x	x	x	x	x			x
RegPac Step	Step-voltage regulators	x	x	x	x	x	x	x	x	x	x	x		x
SPECIAL INSULATING LIQUIDS															
AskPac	Askarel package	N/A	x**	x	x	x	x	x						x
Natural Ester Pac	Transformers filled with any natural ester	x	x	x	x	x	x	x	x	x				x
FR3 Pac Plus	FR3-filled transformers (with inhibitor test)	x	x	x	x	x	x	x	x	x	x			x
S-LiquidPac	Natural and synthetic esters*, Alpha-1	x*	x	x	x	x	x	x	x					
SilPac	Silicone package	N/A	x	x	x	x	x	x	x					
SilPac Plus	SilPac plus furanic compounds test	N/A	x	x	x	x	x	x	x					x
WecPac	Wecosol/Perclene package	N/A	x**	x	x	x	x	x						

**The IFT test is not available for synthetic esters*

***D877 will be the dielectric test for these fluids*

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FIELD INSPECTION TECHNICIAN'S GUIDE TO

Proper Procedures for Obtaining Fluid Samples



Our MaxLife Philosophy

Everything we do is focused on maximizing the cost-effective reliable life of your high-voltage equipment. We strive to exceed expectations with benchmarks higher than the status quo.

FOR HELP, CONTACT...

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SDMyers ACTS 4:12
Safe, reliable substations

1 PREPARE VALVE

Lay rags beneath valve area
Place drip pan under valve
Verify valve is in off position
Remove front plug

2 CLEAN OUT VALVE

Wipe out inside of valve opening
Install valve-to-tubing reducer

3 VERIFY PRESSURE OR VACUUM

Obtain tubing with bullet of oil in it
Place thumb over the end of tubing
Open the valve
Lightly and slowly release thumb pressure
If vacuum exists, relieve by adding nitrogen

4 FLUSH

For 1˝ valve: Fill and discard flush bottle 3 times. Fill 4th time for BOT*
For 2˝ valve: Fill and discard flush bottle 4 times. Fill 5th time for BOT*
**BOT = Bottom Oil Temperature*

5 FILL PLASTIC BOTTLE

Fill bottle half full
Dispose of fluid to rinse bottle
Fill bottle to neck
Label bottle

6 FILL GLASS BOTTLE

Dispose of desiccant tablet
Fill bottle half full
Dispose of fluid to rinse bottle
Fill bottle to neck
Label bottle

7 FILL SYRINGE

Evacuate air from syringe
Attach tubing
Draw 50 ml of fluid into syringe
Evacuate syringe again
Draw 50 ml of fluid into syringe
Remove air bubbles
Reduce fluid sample to 42 ml

8 RESTORE VALVE

Shut valve off
Remove reducer
Apply Teflon® tape to threads on front plug
Replace front plug
Tighten front plug with wrench

9 PACK AND SHIP

Place bottles in lined box
Place plastic bottles in outside rows
Place glass bottles in inside rows
Place syringes on top of bottles
Place paperwork in plastic freezer bag
Secure box with tape
Ship box to lab

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