LIQUID SAMPLING INSTRUCTIONS

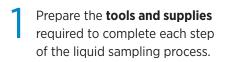


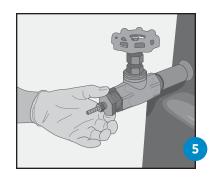
These instructions are intended to provide some basic guidance on drawing your own transformer liquid samples. They assume the reader is familiar with high-voltage transformers, the risks and liabilities involved in working with and/or around energized electrical equipment, the required safety procedures and PPE, regulations including those from OSHA, NESC, and other state and local regulators. **Safety is the number one priority.**

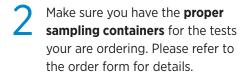
This information is provided for guidance only. SDMyers assumes no responsibility or liability for any use or misuse of this information. **Contact SDMyers at 330.630.7000 with any questions**, or consult a qualified electrical technician.

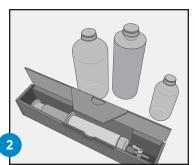
SDMyers provides required sampling containers. Failure to provide liquid samples only in these SDMyers-approved containers may result in the Company's refusal to process your order. Thank you for your understanding and cooperation!

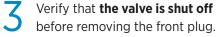


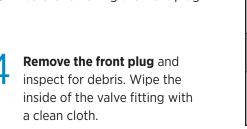


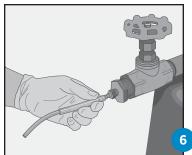




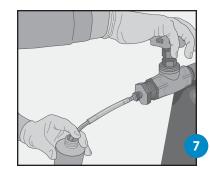




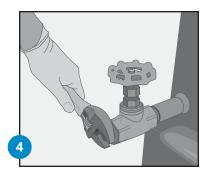




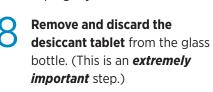
Affix the tubing reducer to the inside of the clean valve fitting. Tighten with moderate torque.

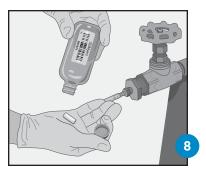


Flush the valve as follows: 50 oz. for a 1" valve. 60 oz. for a 2" valve. (Tubing here is optional.)



7 Fill the plastic bottle 2/3 full.
Shake bottle. Discard oil. Fill the bottle to the neck and secure the cap tightly.

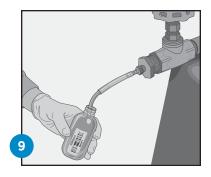




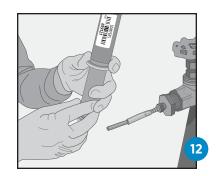
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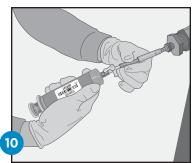


Failure to provide liquid samples only in SDMyers-approved containers may result in the Company's refusal to process your order. If you have any questions, please contact us at 330.630.7000. Thank you!

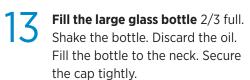


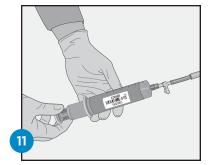
- Fill the small glass bottle 2/3 full. Shake the bottle. Discard the oil. Fill the bottle to the neck. Secure the cap tightly.
- Evacuate air from the sampling syringe. Attach the flexible tubing provided inside the box.



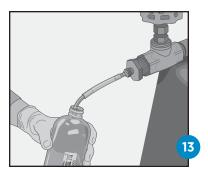


- Draw 50 ml of liquid into the sampling syringe and evacuate the syringe. Draw another 50 ml of liquid into the syringe.
- Hold the syringe upright so that air bubbles rise to the stopcock. Dispel the bubbles. Reduce the volume in the syringe to 42 ml.





Complete all accompanying paperwork thoroughly and accurately. Proceed to Packing Instructions.





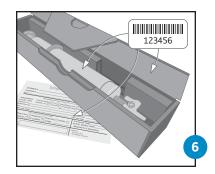
PACKING INSTRUCTIONS

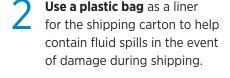


These instructions are provided to make sure your samples will arrive safely to our facility and will be processed successfully. Improper packing will greatly compromise your samples. (Unfortunately, we see it all too often.) If you have any question whatsoever, please contact us at 330.630.7000. We always welcome your call!



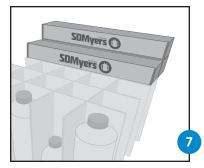




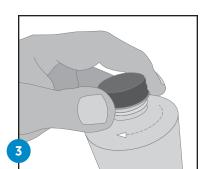




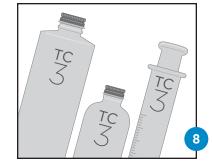
Be sure to tighten all bottle **caps** securely before loading the bottles into the shipping carton.



Label each bottle properly so that the samples can be successfully received, identified and processed.

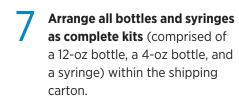


Place all bottles vertically (upright) in the partitioned slots designated for them in the shipping carton.



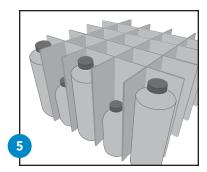
Place all syringes in their respective boxes (keeping all bar codes matched up) and position them horizontally across the top of the bottles in the bottom tier.



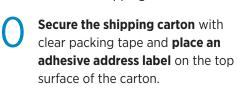


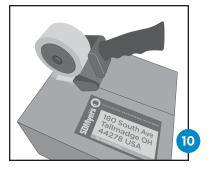


Do not separate the components of the sample kits between different shipping cartons.



Include the completed Order Form and Sample Return Check*list* inside a sealed ziplock bag and place it on top of the samples inside the shipping carton.





LIQUID TESTING ORDER FORM



COMPANY NAME		CUSTOMER#			
CONTACT PERSON		PHONE			
ADDRESS					
CITY		STATE	ZIP		
SAMPLE DATE	P. O. NUMBER				



NO.	QTY	TEST NAME	TEST DESCRIPTION		REQUI 12 oz			INERS 16 oz
4000		CriticalPac	Critical transformers		1	1	1	-
4001		PowerPac1	Non-critical transform	Non-critical transformers, baseline		1	1	-
4002		PowerPac2	Non-critical transform	Non-critical transformers, ongoing		1	1	-
4003		DistributionPac	Distribution-class trar	Distribution-class transformers		1	1	-
4004		LTCPac	LTC testing without PC/FC		1	1	1	-
4012		LTC Complete	Load Tap Changers		2	1	1	-
4005		RegPac—Single	Regulators < 500 gallons		1	1	1	-
4006		RegPac—Three	Regulators > 500 gallons		1	1	1	-
4007		RegPac—Step	Step-voltage regulators		1	1	1	-
4008		OCBPac	Oil Circuit Breakers		1	1	1	-
4009		SwitchPac	Switchgear		1	1	1	-
4051		SilPac	Silicone		1	1	1	-
4060		SilPac Plus	SilPac with furanic compounds		1	1	1	-
4010		S-FluidPac	FR3, Biotemp, ENV-200, Midel, Alpha 1		1	1	1	-
4063		Natural Ester Pac	Natural ester critical transformers		1	1	1	-
4064		FR3 Pac Plus	New transformers with FR3		1	1	1	-
4052		AskPac	Askarel package	Hazmat: These liquids require special handling. Please refer to DOT for complete instructions.				
4058		WecPac	Wecosol/Perclene					

NOTE: EACH TEST BELOW REQUIRES THE FOLLOWING ADDITIONAL CONTAINERS.

MOIL. LAC	III ILOI BLLOW KLG	once the following Applific	MAL C	01117	*****	
4041	Oil Screen	7 tests of basic fluid quality	1	-	-	-
4042	DGA	Dissolved Gas Analysis	-	-	1	-
4043	Karl Fischer	Measures moisture content	-	1	-	-
4046	Dissolved Metals	Copper, iron, aluminum	1	-	-	-
4047	Inhibitor Content	Oxidation inhibitor	-	-	1	-
4050	Furan Analysis	Paper degradation compounds	-	1	-	-
4054	Liquid Power Factor	Measures dielectric losses	1	-	-	-
4067	D1816 Dielectric	Dielectric breakdown voltage	-	-	-	1
4044	PCB—Fluid	Regulatory compliance	1	-	-	-
4048	PCB—Solid	Regulatory compliance	1	-	-	-
4049	PCB-Wipe	Regulatory compliance	1	-	-	-
4025	Corrosive Sulfur	Determines presence or absence	1	-	-	-
4066	PC/FC	Particle count/filming compounds	1	-	-	-
4081	Particle Count	Determines size and number	1	-	-	-
						



IMPORTANT!

- Use **only** the containers we provide.
- **Remove** desiccant tablet before filling.
- Fill all containers **completely** to the neck.