

Oil Sampling Kit Mode of Operation

Siemens AG - Material testing laboratory Nuremberg

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1. Content of the Oil Sampling Kit

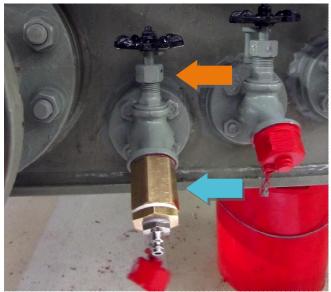
- 2 x reinforced tubing with quick coupling connectors
- 1 x tubing with Luer Lock connection for syringes
- 4 x Adaptors (screws: G1/2"; G3/8"; G3/4"; G5/8")
- 1 x Screwing bottle cap with quick coupling connection
- 1 x Multifuctional gripper
- 2 x Tubing for oil disposal with quick coupling connection



2. Sampling of an oil sample in a bottle



2.1. Choose the sampling location – AA021, AA022, AA023.



2.2. Use an adequate adapter and loose the tap screw nut with the gripper.



2.3. Connect the transformer and the sampling kit valve (top) with the reinforced tubing.





2.4. Connect the second reinforced tubing to the bottom sampling kit valve and from the other side with the black tygon flexible tubing with a coupling connector. The other end of the black flexible tubing leads to the oil disposal vessel. Open the red stop cock. Use this set up to rinse approx. 3 l of oil.

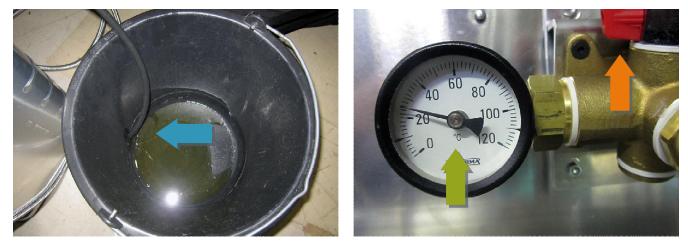




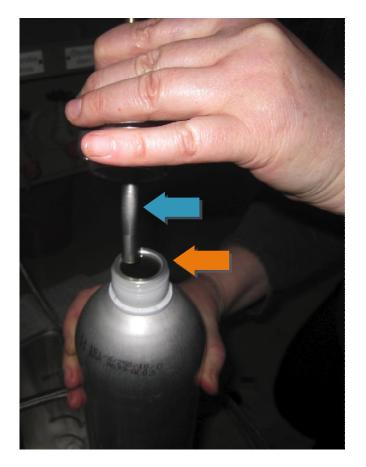
2.5. Close the red stop cock. Remove the tygon flexible tubing with the coupling connector. Connect the free end of the reinforced tubing to the bottle cap (silver coloured coupling).



2.6. Connect the tubing for oil disposal to the bottle cap (brass coloured coupling) and the end to a disposal vessel.

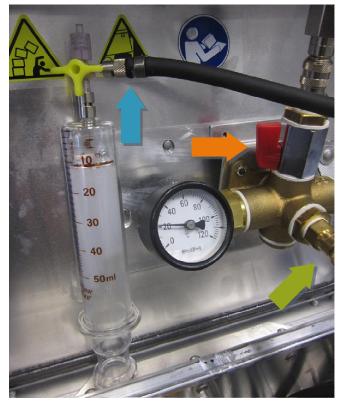


2.7. Open the red stop cock and start with the sampling (directing the oil in the disposal vessel), until the temperature remains constant (at least 2 I oil should be disposed). The temperature should be recorded.



- *f*2.8. Close the red stop cock and disconnect the tub-ing from the bottle cup. Twist off the bottle cap and let the oil from the tubing fill the bottle full to the brim
- 2.9. The bottle should be closed with the screw cap.

3. Sampling of an oil sample in a syringe



Repeat steps 2.1. - 2.4.

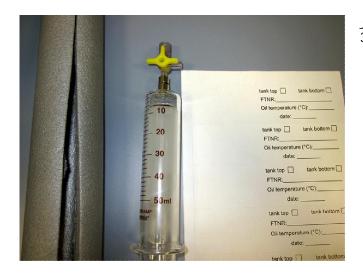
3.1. Connect the tubing with the Luer lock too the syringe 3 way stopcock and the other end to the quick coupling connection. Open the red stop-cock. Turn the 3 way stopcock in the way shown on the foto and let the oil fill the syringe.



3.2. Close the red cock. Turn the syringe 3 way stopcock as shown on the foto. Press the piston of the syringe until all air bubbles are removed.



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 - Repeat procedures 3.1. and 3.2.
- 3.3. Fill in the syringe in position 3.1.
- 3.4. After filling the syringe, turn the 3-way stopcock in the way shown in the foto and disconnect the tubing.



*f*3.5. Label the syringe and place it in the protecting housing.

4. Documentation

After sampling all parameters should be documented and the bottle labelled. A sampling protocol is included:

	ed information ning oil sample		Siemens AG Material Testing Laboratory Katzwangerstraße 150 D-90461 Nürnberg Phone: +49 (0)911/434 - 2324 Fax: +49 (0)911/434 - 2675
Requested analysis:			FdX: +49 (0)911/434 - 26/5
Colour))	
Purity	Crucili		
Neutralisation value	Small VDE - Analysis	Largo	
Breakdown voltage	VDE - Analysis	VDE - Analysis	
Water content		VDL Mildiysis	
Loss factor at 90°C			
Interfacial tension)	
PCB-content			
Furananalysis			
Gas-in-oil-analysis (DGA) Corrosive Sulfur			
DBDS			
Other analyses			
	louden eusstiens with s		
	lowing questions with c		
Make		FTNR (Product No.)	
Customer Location		WNR (Job No.)	
Year of manufacture		Sample No. Date sample taken	
Type		Type of oil	
Power rating		Quantity of oil	
Ratio		Oil temperature when sa	mple taken
Sample taken from			
		Oil drainage device	-
	Oil sample valve	A 22/31/40 DIN 42 551	Others
Tank	Тор	Middle	Bottom
Conservator	Transformer	OLTC	Bushing
OLTC	OLTC tank		
Bushing			
Others			
Reason for sample tal	king		
Date of operation fault		Routine checkup	
Date of repair		Care as	
Date of oil treatment/ reclaiming		Others	
Further informations	and previous history		
Sample taker			
Name		Date	
in block letters		Phone	
Company/Depmt.			
Lab information		Special features	
Consecutive No.			
Date sample received			
Date sample analysed			
Type of sample container			

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