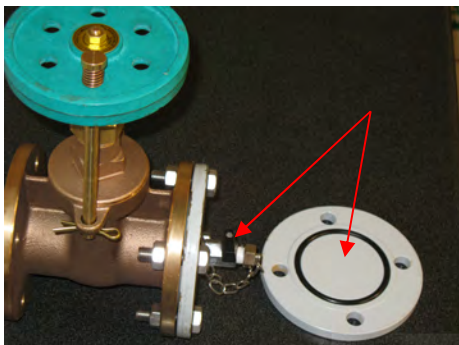


# Tin Sampling Procedure for Oil Quality Tests and Transformer Dissolved Gas Analysis

Use Clean Tins Fitted with Nitrile Rubber Seals in their Lids. Use Nitrile Rubber Gloves



Remove solid flange and fit flange with sampling valve



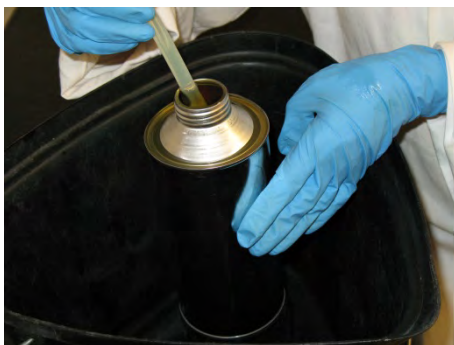
Ensure that the sampling hose valve and flange is clean on the inside and outside.



Complete the Label



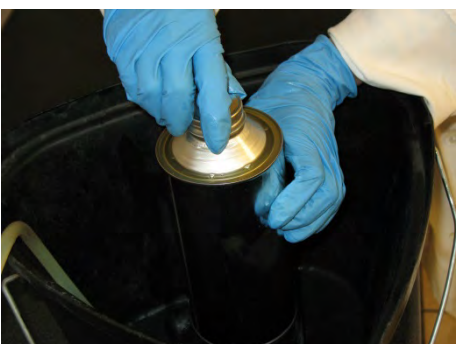
Connect the plastic or silicone tubing to the sampling valve.  
Make sure that the flange valve is closed.  
Open the transformer's valve.  
Operating the flange valve, rinse the flange and tube with at least 3 times its volume.  
Rinse the sampling tin by filling 1/3 with oil at least 3 times.  
Rinse the lid of the sampling tin



Immerse the tubing to the bottom of the sampling tin.  
Open the flange valve and allow the oil to fill the sampling tin.  
Slowly remove the tubing whilst the oil overflows from the tin.  
Close the flange valve.



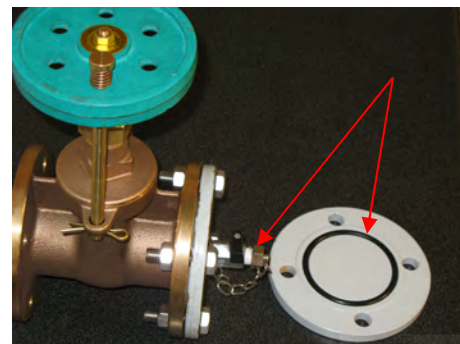
Squeeze the sampling tin until the oil overflows. Fit the lid (with nitrile rubber seal) to the tin whilst oil is overflowing.



Screw the lid tightly onto the oil sampling tin. Wipe off oil residue from sampling tin.



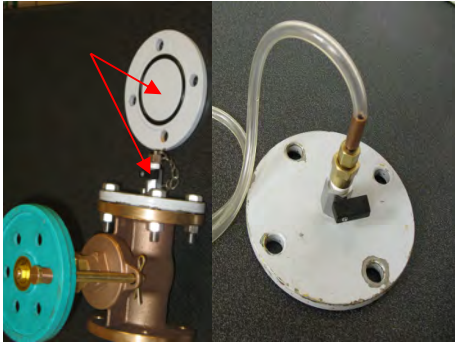
Discard oil from the sampling bucket into a scrap oil container.



Refit solid flange and ensure o-ring is fitted. Screw tightly back the dust cover.

# Syringe Sampling Procedure for Transformer Dissolved Gas Analysis & Water Content

Use Clean Gas Tight Glass Syringes. Enter the Syringe Index Number onto the Transformer Information Sheet if Used.  
Use Nitrile Rubber Gloves.



Remove solid flange and fit flange with sampling valve  
Ensure that the sampling hose valve and flange is clean on the inside and outside.



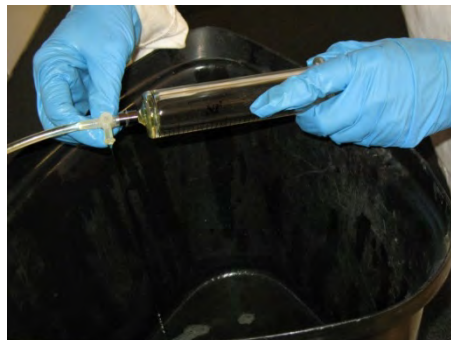
Complete the Label.



Use only clean plastic or silicone tubing as interconnector between the glass gas tight sampling syringe (50 ml) and the flange assembly or sampling valve on the transformer



Left to right:  
Position A – Tube fitting side closed off,  
Position B – Exhaust fitting side closed off,  
Position C – Syringe fitting side closed off,



Turn valve to position C and open transformer sampling valve  
Allow at least 3 times the pipe & flange volume of oil to flow into the waste bucket.



Turn syringe valve to position B.  
Carefully draw 50 ml oil into the syringe.  
When syringe is filled, turn valve to position C.  
Remove syringe and tubing from all valves.



Pack syringe carefully in original packaging.  
Stick sample index number to the syringe.  
Complete transformer detail on label / sheet



Discard oil from the sampling bucket into a scrap oil container.



Refit solid flange and ensure O-ring is fitted.  
Screw tightly back the dust cover.