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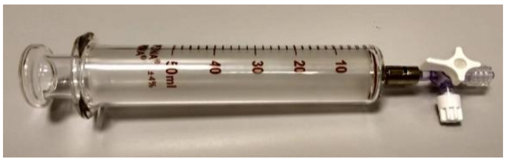
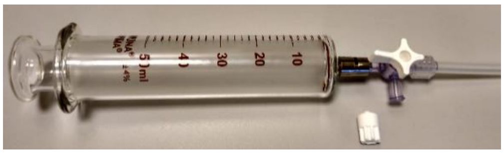
DGA analysis sampling instruction

Proper sampling is crucial for proper analysis and diagnostics of the unit under study. Oil sampling for DGA analysis should be made from the transformer's upper valve.

1. Check the correct setting of the three-way tap valve - the valve should be in the closing position for the inflow from outside.



2. Connect one end of hose to the transformer drain valve, and the opposite end to the syringe. Remove the stopper from the oil drain outlet.



3. Let the medium off the transformer until the oil temperature is equal oil's to the top layer temperature (about 2-4 l), in order to obtain a representative sample.

4. Turn the valve to the perpendicular position towards to the syringe by blocking the oil drain outlet.
5. Fill the syringe over 50 ml using the oil pressure of the tank (do not pull the piston).

6. Set the tap valve by closing the transformer oil supply and close the drain valve. Remove the air bubbles by placing the syringe in the vertical position.

7. Remove the oil from the syringe with the piston. Repeat the filling and emptying of the syringe three times.

8. Fourth filling of the syringe is considered to be the final sample collection (50 ml). In case air bubbles occur, repeat the filling.
9. Place the valve in the closed position for the inflow into the syringe (initial position) .Disconnect the hose and put the syringe in a bag for storing of sample.