

Instruction of sampling for physicochemical analysis and determination of furan compounds

Proper sampling is crucial for proper analysis and diagnostics of the unit under study. It is recommended to use disposable sampling vassels, in order avoid contamination of the sample (e.g. aluminium bottle of 1,2l). Check the bottle condition before starting the work. In exceptional cases (bad weather conditions) it may be necessary to use a screen. Oil sampling for physicochemical analysis and determination of furan compounds should be made from the transformer's bottom valve.

1. Clean thoroughly the outside of the valve with a lint-free cleaning cloth.
2. Connect the plastic hose to the sampling valve.
3. Open the sampling bottom valve. Rinse thoroughly the sampling valve release an appropriate amount of oil into the waste container. The amount of oil released depends on its overall capacity in the unit (in big units about 5 liters for release is recommended). In case the valve diameter is small, it is recommended to release bigger amount of oil under high pressure.
4. Remove the cap and seal from the aluminium bottle.
5. Without disturbing the oil release put the bottle under the valve, fill it up to 1/3 of its capacity, shake it and dispose the oil into the waste container.
6. Refill the bottle, this time to its total volume, as not to cause foaming, gassing of the sample.
7. Seal the full bottle and close.
8. Close the sampling bottom valve.
9. Complete the data on the ID sample.

