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How To Sample A Transformer

To be used in conjunction with manufacturer's guides and safety rules

Required Equipment

- Valve Adapter (bung / fitting, tubing with second valve).
- Bucket or empty container and funnel.
- Spill Sheet.
- Rubber Gloves.
- Thermometer.
- Absorbent Wipes.
- 500ml sample bottle.
- Sample Label.

Best Practice for a true representative sample

- Avoid taking sample in poor weather.
- Take samples from the bottom valve or dedicated sample point.
- Use a sample adapter or kit.
- Store sampling equipment in a clean, dry environment.
- Do not use a bottle that has been used for other liquids.
- A few litres should be allowed to run into the bucket / container before taking the first sample.
- Do not adjust the transformer sample valve once a reasonable flow has been achieved, if necessary the oil flow can be controlled using the secondary valve on the sample adapter / kit.

Process

- Clean valve thread or sample point with wipe.
- Establish a clean working area around the sample point.
- Attach valve adapter to sample point and fit new tubing to adapter.
- Open transformer sample valve to establish a quick flow of 2-5 litres of oil into the bucket / container do not adjust the transformer sample valve till the sample has been taken, use the secondary valve if necessary.
- Record the oil temperature from the flow of the oil from the tubing of the sampling kit.
- Rinse the sample bottle and lid two or three times to prevent sample contamination – do not shake the bottle.
- Slowly fill the sample bottle from the bottom avoiding air bubbles.
- Leave approximately 1.5-3.0 cm from the top of the bottle allow for expansion.
- Screw the cap into place until it “bites” no not over tighten and risk stripping the thread.
- Close the transformer sample valve and record details on the label.
- Reuse Eden packaging to return sample.
- Responsibly dispose of the ‘run off’ oil.

Guide To Sample Volume

Over filling the bottle may result in the bottle breaking if the oil warms and expands during transit.

Underfilling may result in losing dissolved gasses and the results may be unreliable.

Fill the bottle to approximately 1.5-3.0cm from the top.



Once the samples have been extracted ensure the bottle is clean, the cap is hand tight until it “bites” and the sample ticket completed.

Place the ticket around the neck of the bottle using the elastic band.

Please do not tape or stick the ticket or label to the bottle.

Re-package the bottle using the original packaging and secure the lid on the crate using the yellow seals or cable ties.