



TCA™
Transformer Condition Assessment
Transformer Fluid
Sample Data

Document 10.2/Issue 6
TJ|H₂b ANALYTICAL SERVICES PTY LTD

ABN 52 096 816 081

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| RETURN OIL SAMPLES AND COMPLETED DOCUMENTS TO : MAHANGA HOLDINGS LTD 24b WILLIAM PICKERING DRIVE ALBANY (PO Box 40221 GLENFIELD) PH 09 444 0663 FAX 09 444 1526 | SEND REPORT TO: Name: _____ Email: _____ Phone: _____ Fax: _____ |
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P.O. or Job # (If Applicable) _____

Sampled By: _____

| | | | |
|----------------------------|---------------------------------------|--|--|
| Sample Location | (Substation/PH/PP) | | |
| Sample Date | | | |
| Transformer ID/Number | | | |
| Serial Number | (Nameplate) | | |
| Manufacturer | (Nameplate) | | |
| Date of Manufacture | (Nameplate) | | |
| Where Manufactured | (Nameplate) | | |
| kVA Rating | (Nameplate) | | |
| Primary kV | (Nameplate) | | |
| Secondary kV | (Nameplate) | | |
| Tertiary kV | (Nameplate) | | |
| Fluid Volume | (Nameplate) | | |
| Fluid Preservation | (Free/Sealed/Conservator) | | |
| Cooling | (Nameplate) | | |
| Core & Coil Weight | (Nameplate) | | |
| Oil Filtered/Unit Serviced | (Yes/No) | | |
| Transformer Temperature | | | |
| Oil Sample Temperature | | | |
| PCB Level (if known) | | | |
| Turnaround Time Required | Routine (5-10 days) Urgent (24hrs) | | |

Tick appropriate boxes to indicate required tests:

TRANSFORMER CONDITION ASSESSMENT (TCA) PACKAGE TESTS:

- | | |
|---|--|
| <input type="checkbox"/> Dissolved Gas Analysis (ASTM D3612) <input type="checkbox"/> Dielectric Breakdown (IEC60156) <input type="checkbox"/> Interfacial Tension (ASTM D971) <input type="checkbox"/> Particle Count <input type="checkbox"/> Furan Analysis (ASTM D5837) | <input type="checkbox"/> Moisture in Oil (ASTM D1533) <input type="checkbox"/> Acid Number (ASTM D974) <input type="checkbox"/> Colour (ASTM D1500) <input type="checkbox"/> Dielectric Dissipation Factor at 25degC (IEC 60247) <input type="checkbox"/> Oxidation Inhibitor (ASTM D2668) |
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ADDITIONAL TESTS:

- | | |
|---|--|
| <input type="checkbox"/> Dielectric Dissipation Factor at 90degC (IEC 60247) <input type="checkbox"/> PCB Content <input type="checkbox"/> Others: please specify _____ | <input type="checkbox"/> Resistivity (IEC 60247) <input type="checkbox"/> Corrosive Sulphur (IEC 65235) |
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Instructions: One litre of oil is required to complete all the above tests. Depending on tank volume and oil condition, flush at least one litre (max: four litres) of oil through the drain valve prior to collecting samples.

PLEASE REMEMBER TO MARK 'TCA SAMPLE' ON SAMPLE CONTAINERS. THANK YOU.

Mahanga Holdings Limited
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 Enquiries: +64 9 444 0663 Mob +64 21 464 103

Reason for Test (tick appropriate box)

- Routine Test
- Retest
- This is a Return to Service Test