

**SCREENS OF PSHRS SOFTWARE TO
CAPTURE DATA & GENERATE THE
REPORTS WITH EXEPT COMMENTS**

Test on Transformer OIL

Test Date

Oil BDV Test

Water Content Test

DGA Test

Other Test

OIL BDV TEST [kV]

| Test | Observed Values | | | | | | Avg Value | Required Value [Min] | Remark |
|-------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| Transformer Oil BDV Test [kV] | <input type="text" value="69"/> | <input type="text" value="70"/> | <input type="text" value="50"/> | <input type="text" value="49"/> | <input type="text" value="49"/> | <input type="text" value="66"/> | <input type="text" value="58.8"/> | <input type="text" value="60kV"/> | <input type="text" value="Not OK"/> |
| <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value="60kV"/> | <input type="text" value=""/> | |

OIL BDV TEST [kV] [Before Dielectric Test/After Dielectric Test]

| Test | Observed Values | | | | | | Avg Value | Required Value [Min] | Remark |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|-------------------------------|
| Oil BDV Test [kV] [Before Dielectric Test] | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value="60kV"/> | <input type="text" value=""/> |
| Oil BDV Test [kV] [After Dielectric Test] | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value=""/> | <input type="text" value="60kV"/> | <input type="text" value=""/> |



Save



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| | | |
|---|--|------------------|
|  The Automation People PROLIFIC TRANSFORMER DIVISION | TRANSFORMER TESTING DEPARTMENT TEST CERTIFICATE | DOC.NO: TSG / 02 |
| | | REV NO : R2 |
| | | SHEET : 20 OF 22 |

ORDER REFERENCE : 4700034955 DTD.15.11.07

Date : 29-May-2008

TRANSFORMER SERIAL NO: 3009

TEST REPORT NO : TSG/05/08/30

OIL BDV TEST [kV]

| Test Conducted | Observed value | | | | | Avg value | Required Values | Remark | |
|----------------------------------|----------------|----|-------|-------|------|-----------|-----------------|--------|--------|
| Transformer Oil BDV Test [kV] | 69 | 70 | 50.00 | 49.00 | 49.0 | 66.00 | 58.8 | 60kV | Not OK |

Comments:

Filtration of oil is required because oil is contaminated. If impurities not removed after filtration then please change the oil.

Transformer Serial Number : 6179783

Test Name

ACCURACY TEST

Core 1,2,3,4,5

| Core Details | % Current | Burden | Ratio Ratings | | | | | |
|--------------|------------|--------|---------------|------|--------|-----|--------|-----|
| | | | 500/1 | | 1000/1 | | 2000/1 | |
| | | | RE | PE | RE | PE | RE | PE |
| Core 4 | 100 | 15 | -0.195 | 7.8 | -0.075 | 2.5 | -0.027 | 0.6 |
| Core 5 | 100 | 5 | -0.087 | 4.9 | -0.039 | 1.7 | -0.012 | 0.4 |
| Core 5 | 100 | 15 | -0.215 | 10.1 | -0.075 | 3.3 | -0.021 | 0.9 |
| Core 3 | 200/140... | 5 | 0.11 | 1.4 | 0.035 | 0.9 | 0.086 | 0.7 |
| Core 3 | 100 | 5 | 0.103 | 1.7 | 0.031 | 1 | 0.083 | 0.7 |
| Core 3 | 20 | 5 | 0.021 | 6.1 | -0.016 | 3.2 | 0.041 | 2.4 |
| Core 3 | 5 | 5 | -1.7 | 14.3 | -0.084 | 6.9 | -0.047 | 6 |
| Core 3 | 200/140... | 20 | -0.116 | 2.3 | -0.113 | 1.2 | -0.041 | 1 |

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Transformer Test Group Current Transformer Test Report

| | | | |
|-------------------|--------------------------|--------------------|-------------|
| Work Order | 65112-A-526-01 | Serial No . | 6179783 |
| Customer | M/s Prolific | Elec Spec. | 618225 |
| Ref | TTG/INST/CT/9068/10/2010 | Line Volts | 420,000.00 |
| Standard | IS : 2705 | Type | Outdoor |
| Frequency | 50.00 | Test Date | 20-Aug-2010 |

Accuracy Test

| Core Details | % Current | Burden | TRE | RCT | TRE | RCT | TRE | RCT |
|--------------|-------------|--------|-------|-------|-------|-------|-------|-------|
| Core 1 | 100 | 5.00 | -0.04 | 2.60 | -0.02 | 1.00 | -0.01 | 0.20 |
| Core 1 | 100 | 15.00 | -0.13 | 5.30 | -0.05 | 1.90 | -0.01 | 0.50 |
| Core 2 | 100 | 5.00 | -0.07 | 2.70 | -0.03 | 1.10 | -0.01 | 0.20 |
| Core 2 | 100 | 15.00 | -0.20 | 6.70 | -0.07 | 2.30 | -0.02 | 0.60 |
| Core 4 | 100 | 5.00 | -0.08 | 3.70 | -0.04 | 1.20 | -0.02 | 0.20 |
| Core 4 | 100 | 15.00 | -0.20 | 7.80 | -0.08 | 2.50 | -0.03 | 0.60 |
| Core 3 | 200/140/120 | 20.00 | -0.12 | 2.30 | -0.11 | 1.20 | -0.04 | 1.00 |
| Core 3 | 100 | 20.00 | -0.14 | 2.60 | -0.13 | 1.50 | -0.05 | 1.20 |
| Core 3 | 20 | 20.00 | -0.34 | 9.10 | -0.25 | 6.20 | -0.15 | 5.20 |
| Core 3 | 5 | 20.00 | -0.73 | 24.00 | -0.08 | 13.50 | -0.30 | 10.00 |
| Core 5 | 100 | 5.00 | -0.09 | 4.90 | -0.04 | 1.70 | -0.01 | 0.40 |
| Core 5 | 100 | 15.00 | -0.22 | 10.10 | -0.08 | 3.30 | -0.02 | 0.90 |
| Core 3 | 200/140/120 | 5.00 | 0.11 | 1.40 | 0.04 | 0.90 | 0.09 | 0.70 |
| Core 3 | 100 | 5.00 | 0.10 | 1.70 | 0.03 | 1.00 | 0.08 | 0.70 |
| Core 3 | 20 | 5.00 | 0.02 | 6.10 | -0.02 | 3.20 | 0.04 | 2.40 |
| Core 3 | 5 | 5.00 | -1.70 | 14.30 | -0.08 | 6.90 | -0.05 | 6.00 |

| | | | | | | | | |
|--------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Core 3 | 20 | 20.00 | -0.34 | 9.10 | -0.25 | 6.20 | -0.15 | 5.20 |
| Core 3 | 5 | 20.00 | -0.73 | 24.00 | -0.08 | 13.50 | -0.30 | 10.00 |
| Core 5 | 100 | 5.00 | -0.09 | 4.90 | -0.04 | 1.70 | -0.01 | 0.40 |
| Core 5 | 100 | 15.00 | -0.22 | 10.10 | -0.08 | 3.30 | -0.02 | 0.90 |
| Core 3 | 200/140/120 | 5.00 | 0.11 | 1.40 | 0.04 | 0.90 | 0.09 | 0.70 |
| Core 3 | 100 | 5.00 | 0.10 | 1.70 | 0.03 | 1.00 | 0.08 | 0.70 |
| Core 3 | 20 | 5.00 | 0.02 | 6.10 | -0.02 | 3.20 | 0.04 | 2.40 |
| Core 3 | 5 | 5.00 | -1.70 | 14.30 | -0.08 | 6.90 | -0.05 | 6.00 |

Comments :

Demagnetization require in core3 because of change core characteristics. If problem is not solved After demagnetization then call manufacturer and do the necessary changes in CT

Prepared By :

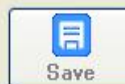
ABC

Transformer Serial Number : 6179783

Test Name TAN DELTA OF PRIMARY WINDING

TAN DELTA OF PRIMARY WINDING

| Before HV Test : | | | After HV Test : | | |
|------------------|-----------|-----------------|-----------------|-----------|-----------------|
| Voltage(kV) | Tan Delta | Capacitance(pF) | Voltage(kV) | Tan Delta | Capacitance(pF) |
| 73 | 0 | 0.00249 | 73 | 0 | 0.00253 |
| 170 | 0 | 0.00252 | 170 | 0 | 0.00253 |
| 243 | 762 | 0.00253 | 243 | 763 | 0.00256 |
| 267 | 0 | 0.00253 | 267 | 0 | 0.00570 |





PROLIFIC SYSTEMS & TECHNOLOGIES PVT LTD ,MUMBAI

Transformer Test Group

Current Transformer Test Report

| | | | |
|-------------------|--------------------------|--------------------|-------------|
| Work Order | 65112-A-526-01 | Serial No . | 6179783 |
| Customer | M/s Prolific | Elec Spec. | 618225 |
| Ref | TTG/INST/CT/9068/10/2010 | Line Volts | 420,000.00 |
| Standard | IS : 2705 | Type | Outdoor |
| Frequency | 50.00 | Test Date | 20-Aug-2010 |

Capacitance & Tan Delta of Primary Winding

| Voltage | Tan Delta | Capacitance |
|---------|-----------|-------------|
| 73.00 | 0.002490 | |
| 170.00 | 0.002520 | |
| 243.00 | 0.002530 | 762.00 |
| 267.00 | 0.005700 | |

Comments :

It observed that insulation contents some moisture or insulation is weak. To accommodate this give proper vacuum process to the CT to remove the moisture and other impurities. Parallely oil should be filtered. After this process if Tan Delta not found in limit, then insulation should be change.