

ANALISIS FURAN PADA TRANSFORMATOR DENGAN METODE KROMATOGRAFI CAIRAN KINERJA TINGGI

Klien/Proyek : Graha Cempaka Tegangan : 20000 Va
Pabrikan/Tahun : Trafindo/1994 Kapasitas : 1100 L
Nomor Seri : 123456789 Catatan : _____
Rated Power : 2000 kva

Hasil Uji (Nilai Konsetrasi Dalam Parts Billion [ppb])

1
-
Tanggal
Sampling
6/6/2023
-
Tanggal Terima
6/6/2023
-
Tanggal
Pengujian
6/6/2023
-

BATAS TRANSFORMER 2FAL STANDARD FIST-3-31:2003

| | | | |
|-------------------------------------|-------------------|----------|------------------------------------|
| 5HMF | | | |
| (5-hydromethyl-2-furakhydel) | 0 | 0 | |
| 5HMF | | | 0-292 pbd Normal Aging Rate |
| (5-hydromethyl-2-furakhydel) | 1 | 1 | 0-292 pbd Normal Aging Rate |
| 5HMF | | | |
| (5-hydromethyl-2-furakhydel) | 1 | 1 | 0-292 pbd Normal Aging Rate |
| 5HMF | | | 0-292 pbd Normal Aging Rate |
| (5-hydromethyl-2-furakhydel) | 1 | 1 | 0-292 pbd Normal Aging Rate |
| 5HMF | | | |
| (5-hydromethyl-2-furakhydel) | 1 | 1 | |
| Total 2FAL | 0/5* = 0.0 | - | 5* Faktor Koreksi |
| Total Furan | 1 | - | - |
| Estimate DP | 1 | - | - |

- Berdasarkan hasil uji sample tersebut maka trafo mengalami Normal Aging Rate
- Berdasarkan hasil uji sample tersebut maka trafo mengalami Normal Aging Rate
- Berdasarkan hasil uji sample tersebut maka trafo mengalami Normal Aging Rate
- Berdasarkan hasil uji sample tersebut maka trafo mengalami Normal Aging Rate

Tangerang, 16 juni 2023

Klien/Proyek : Graha Cempaka Tegangan : 20000 Va
Pabrikan/Tahun : Trafindo/1994 Kapasitas : 1100 L
Nomor Seri : 123456789 Minyak :
Rated Power : 2000 kva Catatan : _____

Diperiksa Oleh :
Diuji Oleh : Disetujui Oleh :

Resita Nur Ambya
Analisis Laboratorium

Ahmad Kharis Ahmad Sujarwo
KaBag In Manager In House Service
House

TEST RESULT OF OIL ANALYSIS

Customer : Edo Laksana Widodo

Project : Hotel/Apartment

No. Documen :

Tgl/Rev. Form :

Tgl/Rev. Isi Dok :

Halaman :

DATA TEKNIS TRANSFORMATOR

Merk : Brush **Tegangan** : 138000 / 3450 V **Tahun** : 1999 **Catatan** :
Kapasistas : 5000 Kva **Tag No.** : 50-EE-2112A **Vector** : Dyn-Group 1
No Seri : 7171771 **Temp. Oil** : -5* **Jumlah** : 2156
Oil L

HASIL PENGUJIAN OIL ANALYSIS

| STANDAR QUALITY OF OIL ANALYSIS | | | 1 | 2 | 3 | BATASAN NILAI PENGUNJIAN | | | |
|---|------------|------------|------------|------|------|--------------------------|------|------|-----------|
| | | | 1 | 1 | 1 | | | | |
| | | | 1 | 1 | 1 | | | | |
| | | | 1 | 1 | 1 | | | | |
| | | | 1 | 1 | 1 | | | | |
| | | | 1 | 1 | 1 | | | | |
| | | | 08/08/2023 | - | - | Poor | Pair | Good | Condition |
| Color / Appereance | ASTM Color | ASTM D1500 | 5 | - | - | >3.5 | - | 3.5 | Poor |
| Breakdown Voltage (Dielectric Strength) | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Interfacial Tension | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Total Acid Number (TAN) | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Water Content | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Oil Quality Index (OQIN) | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Sediment & Sludge | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Density | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Corrosive Sulfur | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |
| Flash Point | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST | TEST |

Kesimpulan :

Berasarkan IEC 60422:2013, Sample Minyak Trafo berada pada kondisi Poor

Rekomendasi :

Lakukan Purifikasi Oli atau pergantian Oli

Tangerang, 09 August 2023

Di uji Oleh,

Di Periksa Oleh,

Di Setujui Oleh,

Farhan Aditya
(Analisis Laboratorium)

Ahmad Kharis
(kaBag. In House Service)

Ahmad Sujarwo
(Manager In House Service)

