

ANALISIS FURAN PADA TRANSFORMATOR DENGAN METODE KROMATOGRAFI CAIRAN KINERJA TINGGI

| | | | |
|--|---|------------------|--|
| Klien/Proyek | : Graha Cempaka | Tegangan | : 20000 Va |
| Pabrikan/Tahun | : Trafindo/1994 | Kapasitas Minyak | : 1100 L |
| Nomor Seri | : 123456789 | Catatan | : _____ |
| Rated Power | : 2000 kva | | |
| Parameter | Hasil Uji (Nilai Konsetrasi Dalam Parts Billion [ppb]) | | |
| | 1 | - | BATAS TRANSFORMER 2FAL STANDARD FIST-3-31:2003 |
| | Tanggal Sampling 6/6/2023 | - | |
| | Tanggal Terima 6/6/2023 | - | |
| | Tanggal Pengujian 6/6/2023 | - | |
| 5HMF (5-hydromethyl-2-furakhydel) | 0 | 0 | 0-292 pbd Normal Aging Rate 0-292 pbd Normal Aging Rate 0-292 pbd Normal Aging Rate 0-292 pbd Normal Aging Rate 0-292 pbd Normal Aging Rate |
| 5HMF (5-hydromethyl-2-furakhydel) | 1 | 1 | |
| 5HMF (5-hydromethyl-2-furakhydel) | 1 | 1 | |
| 5HMF (5-hydromethyl-2-furakhydel) | 1 | 1 | |
| 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 Minyak | : 1100 L |
| Nomor Seri | : 123456789 | Catatan | : _____ |
| Rated Power | : 2000 kva | | |
| Diuji Oleh : | | Diperiksa Oleh : | |
| Resita Nur Ambya | | Ahmad Kharis Ahmad Sujarwo | |
| Analisis Laboratorium | | KaBag In House Manager In House Service | |

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,

Farhan Aditya
(Analisis Laboratorium)

Di Periksa Oleh,

Ahmad Kharis
(kaBag. In House Service)

Di Setujui Oleh,

Ahmad Sujarwo
(Manager In House Service)

