TRAFINDO
TRANSFORMERS

ANALISIS GAS TERLARUT PADA TRANSFORMATOR DENGAN METODE KROMATOGRAFI GAS

Klien/Proyek	~~PT. JVK Ceramic Indonesia~~	Tegangan	20000/380 V
Pabrikan/Tahun	Trafindo / 1998	Kapasitas Minyak	1219 L
Umur Trafo	25 Tahun	Catatan	2: After Purif
Nomor Seri	9830012		
Rated Power	1600 kVA		

HASIL UJI (Nilai konsentrasi dalam parts per million [ppm])							STANDARD IEEE C57.104.2019			
Tanggal	**1**	**2**			Delta [Δ] (ppm)	*Rates* (ppm/year)	Tabel 1 (ppm)	Tabel 2 (ppm)	Tabel 3 (ppm)	Tabel 4 (ppm/year)
Tanggal Sampling	11/06/23	15/07/23								
Tanggal Terima	12/06/23	17/07/23								
Tanggal Pengujian	15/06/23	19/07/23								
GAS PARAMETER										
Hidrogen (H_2)	3	8			5	53.7	40	90	25	-
Etana (C_2H_6)	0	41			41	440.1	15	40	7	-
Etilena (C_2H_4)	0	338			338	3628.5	60	125	20	-
Asetilena (C_2H_2)	0	0			0	0.0	2	7	0	-
Karbon Dioksida (CO_2)	8.9	2398			2389.1	25647.7	5500	8000	1750	-
Metana (CH_4)	0.12	42			41.88	449.6	20	60	10	-
Karbon Monoksida (CO)	0.19	147			146.81	1576.0	500	600	175	-
CO_2/CO ratio	-	-			*Note: The ratio for normal cellulosic decomposition (healthy) = 3 to 10*					

DGA Status					
DGA Status	**DGA Status 1**	Rates < Tabel 4	Delta < Tabel 3	IG < Tabel 1	**Status 3**
	DGA Status 2	Rates < Tabel 4	Delta > Tabel 3	Tabel 1< IG < Tabel 2	
	DGA Status 3	Rates > Tabel 4	Delta > Tabel 3	IG > Tabel 2	

Key Gas Analysis

N/A

Keterangan :

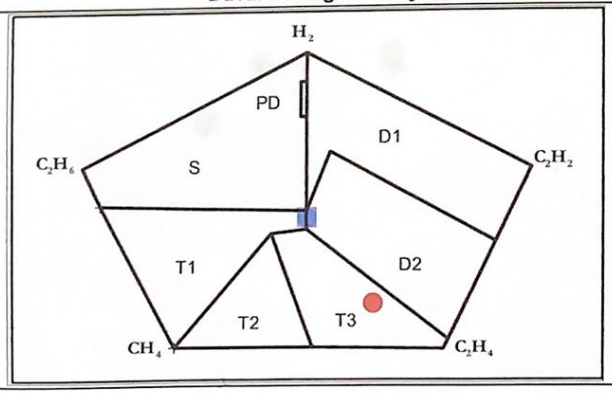
° *Thermal-Oil Decomposition:* Gas Utama Etilena (C_2H_4)

° *Thermal-Cellulose:* Gas Utama Karbon Monoksida (CO)

° *Electrical-Partial Discharge:* Gas Utama-Hidrogen (H_2)

° *Electrical- Arcing:* Gas utama-Asetilena (C_2H_2)

Duval Pentagon Analysis



Keterangan :

° PD: *Corona partial discharge*

° D1: *Low Energy Discharge*

° D2: *High Energy Discharge*

° T3: *Thermal Faults>700°C*

° T2: *Themal Faults of 300 to 700 °C*

° T1: *Thermal Faults <300°C*

° S: *Stray Gassing S of Mineral Oil at 120 and 200°C*

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