

FILTERALL LIMITED

Interpretation of Oil Tests and Recommended Treatment

Test Description	Category of Equipment				Treatment
	A	B	C	D	
1. Breakdown Voltage (kV)	<55	<45	<35	<25	Purification
2. Water Content (ppm)	>15	>20	>40	>40	Purification
3. Neutralization Value (mg KOH/g)	>0.10	>0.15	>0.2	N/A	Regeneration
4. Neutralization Value (mg KOH/g)	>0.35	>0.35	>0.4	N/A	Desludging
5. PCB Contamination (ppm)	50	PPM	Maximum		Recovery

Additional Tests As And When Required

6. Dielectric Dissipation Factor TAN DELTA	>0.5	>0.7	>1.0	N/A	Regenerate
7. Interfacial Tension (Dyne/cm)	<20	<18	<15	N/A	Regenerate
8. Moisture In Insulation (%)	>2.5	>3.0	>4.0	N/A	On-Line / Dry Out

Categories Of Equipment (per IEC Publication 422)

- A. Power Transformers >170 kv
- B. Power Transformers 72.5 to 170kvC
- C. Power Transformers <72.5 kv
- D. Oil Filled Circuit Breakers

Above table has been compiled by Filterall (UK) Limited and is based in IEC Publication 422, (1988), "A Guide to Transformer Maintenance" by S.D. Meyers, J.J. Kelly, R.H. Parish and other sources. Regardless of the information in this table, manufacturer's recommendations should always be fully respected.