



ALcontrol Transformer Analysis

Transcheck report style

Oil CONDITION

Test Date	09/10/2008	11/10/2008	Test Date	05/10/2009	11/10/2008
Lab. No.	2983386	2987954	Lab. No.	2983386	2987954
Colour	BLACK	BLACK	Oxygen (ppm)	4089	4426
Appearance	CLOUDY	CLEAR	Water (ppm)	50674	52964
Concentration	ML	ML	Carbon Disulphide (ppm)	4023	4023
Acidity (mg/Kg)	0.299	0.299	Carbon Monoxide (ppm)	307	824
Moisture (ppm)	13.3	15.0	Hydrogen (ppm)	140	121
Dielectric Strength (KV)	47	46	Methane (ppm)	615	714
PCB Analysis (ppm)	Nil	Nil	Ethylene (ppm)	370	379
ISO		23/23/20	Ethane (ppm)	251	353
			Acetylene (ppm)	2	1
			Gas Content %	1.98	8.00
			Sulfur %	86	83

COMMENTS OIL CONDITION:
Development of color as the result of oxidation of the sample is observed. Acidity at cautionary level. Continue to monitor. When acidity reaches 0.3 mg. acid / liter per cell.

COMMENTS TRANSFORMER CONDITION:
DGA suggests internal fault at high temperature range (3-1000°C). Gases at alarmly high levels. Air-die. chlorides/gases at 0.6 ppm/transformer unit are required.

Tested by: 0057293381 Report issued by: Aashir Ghouse Date: 20/11/2008

Category	Range (SI)	Value (unit ppm max)	Attention range (SI min)	Acuity (mg/Kg max)
10	400	10	50	0.15
11	875	10	50	0.15
12	130	20	40	0.15
13	33 ppm H	30	30	0.2



Contamination identified by microscopy and also causing low dielectric values, indicating a severe fault. Result also confirmed by DGA.



Dielectric breakdown cell

No. of Samples (Submitted in one batch)	Cost per sample (£)			
	1 off	2 – 6 samples	7 – 12 samples	Annual contracts
Routine Includes: <ul style="list-style-type: none"> Dielectric strength Water Colour Acidity/FFA Fibres ISO particle count Image of high contamination 	38.00	30.00	25.00	Contact Us
PCB Only	38.00	30.00	27.00	Contact Us
Routine + DGA	68.00	63.00	58.00	Contact Us
Routine + DGA + PCB	88.00	78.00	73.00	Contact Us
Routine + DGA + Resistivity/DDF	88.00	78.00	73.00	Contact Us
Routine + DGA + PCB + Furans	113.00	108.00	103.00	Contact Us
Routine + DGA + PCB + Resistivity/DDF + Furans	138.00	133.00	128.00	Contact Us

- Prices include cost of sample kit, Collection, Interpretation & Reporting by post, e-mail, or on a protected web page

For further information on our analysis products, send us your details in the box provided to our fax number (01492 574778):

Name:	
Company:	
Fax no:	
Telephone no.:	
Your query:	

Or e-mail us at:
wearcheck@alcontrol.com

Or simply contact us by telephone on:
01492 574750



The INDEPENDENT leading Transformer Condition Monitoring Service

- Working in accordance with BS5730
- 25 years experience in transformer oil testing
- State of the art laboratory (see below)
- Senior staff originally trained by Ron Rogers, inventor of DGA and Rogers Ratio scheme
 - Now significantly advanced by our trained personnel and software systems allowing early warnings of failures up to 4 years in advance
 - Diagnosis made in conjunction with Duval's Triangle

Tests Methods

- Dissolved Gas Analysis (DGA)
- Dielectric Breakdown Strength
- Moisture Content
- Acidity/FFA
- Resistivity
- Contamination detection & identification
- ISO (see overleaf)
- Colour
- Interpretation
- Price includes sample collection, see over



Dissolved Gas Analysis (DGA)



Transcheck Programme

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Please turn over

