



Location:	EXAMPLE TRANSFORMER	Equipment Type:	TRANSFORMER ABC
		Manufacturer:	EXAMPLE
		Installation Date	1991
LR Number:	123456	Serial Number:	12.3.4567
		Fluid Grade:	Mineral Oil
		Fluid Volume (ltr):	
Client:	EXAMPLE CLIENT	Power kVA:	50 MVA
		Voltage kV:	66/11

Sequential Results	Current	4	3	2	1		
LQS Reference	TRL06-01176	TRL05-00287	TRL03-06321	256111/RAS	230223/JA1		
Sampling Point	BOTTOM	BOTTOM	BOTTOM	BOTTOM	BOTTOM		
Date Sampled	05.09.2006	20.01.2005	01.10.2003	02.08.1999	01.11.1998		
Date Dispatched	20.09.2006	21.01.2005	10.10.2003	30.08.1999			
Dispatched From	SUNBURY	MACAU	MACAU	HONG KONG	MACAU		
Unit Service Years				8			
Fluid Service Years				8			
Daily Make Up (ltrs)							

Analysis	Current	4	3	2	1	BS STD	
Colour	AMBER	AMBER	AMBER	AMBER	AMBER	YELLOW	
Appearance	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	
Acidity mg KOH/g	0.21	0.18	0.17	-	-	<0.5	
Electric Strength KV	28	44	56			>30	
E.S. Withstood KV							
E.S. Brokedown KV							
Water mg/kg	37	28	10			<30	
Sediment	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR		
Fibres /l	TRACE	FAINT TRACE	FAINT TRACE	-	-		
Hydrogen % (v/v)	1.8	11.9	8.2	10.70	7.90		
Methane % (v/v)	135.3	153.9	129.8	128.90	138.90		
Ethylene ul/l	20.7	40.4	35.3	13.70	12.20		
Ethane ul/l	667.9	822.7	646.3	645.90	545.30		
Acetylene ul/l	0.01	0.01	0.01	0.01	0.01		
Carbon Monoxide ul/l	135	530	232	217	201		
Carbon Dioxide ul/l	4331	6704	4817	2882	2633		
Oxygen % (v/v)	1.72	0.37	1.58	0.83	1.06		
Nitrogen % (v/v)	6.56	6.34	5.11	4.93	5.27		
Total Gas % vol	8.4	8.8	8.7				
Rogers Ratio	0.2.0	0.2.0	0.2.0	0.2.0	0.2.0		

Oil Unit Rating	C/A	A/B	A/A	A/A	A/A	
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Rating Key

A = Suitable for Further Service
C = Remedial action required

B = Alert Levels
D = Unsuitable Charge

The sample as tested:

FLUID RATING:

The appearance, acidity, odour and sediment meet the requirements for Category C of British Standard 5730:2001 (Monitoring and maintenance guide for mineral oils in electrical equipment).

Please note: The colour, dielectric strength and water content FAIL the requirements of the standard.

UNIT RATING:

Hydrocarbon gases: No significant changes since last analysis and remain consistent with a heavily loaded transformer.

Oxides of Carbon gases: Remain consistent with normal ageing of mineral insulating fluids and cellulose insulation.

Carbon oxides ratio: 32.1

RECOMMENDATION:

The sample as tested indicates that the unit is in a satisfactory condition for continued service.

However, as the oil is at an advanced stage of ageing it should be changed to bring it fully within the standard.

Re-sample after changing the oil.

Next Sample: 05 November 2006

Report Date: 23 October 2006

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