

TEST REPORT

Megha Power Solutions

{ Testing & Diagnostic Solutions }

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Issued to :- **RELIANCE INDUSTRIES LIMITED**
Dahej Manufacturing Division
Dahej,Bharuch,Gujrat

Test Certificate No. :- **5230**
 Test Report Date :- **16/11/2017**
 Testing Date :- **16/11/2017**

Sample Particular

Sampling Method(IS 6855)

Collected on:- 15/11/2017 By :- MPS Position:- TANK-1 Weather:- SUNNY

Eqmt. Detail	Plant	Code	Sr.No.	Rating	Ratio(KV)	Make	Mfr Year
	220 KV SWITCH YARD	GIOP-GRTR-001	6800000133	45/60/75 MVA	220/34.5	NGEF	1995

Oil Test (IS 1866-2000 Addition 4.1, 2006-08)				DGA (Dissolved Gas Analysis) (IS 10593,9434)		Furans * (ASTM :D 5837)		
Test Parameter		Test Method	Limits	Test Value	Tested Gases	Test Value	Tested Contents	Test Value (ppb)
Appereance		IS 335	Clear	Reddish brown Color	TGC Total Gas Content %	6.5	5-Hydroxymethyl-2-feruldehyde	0
Density at 29.5 ° C		IS 1448(P-16)	Max 0.89 g/cm ³	0.863	H2 Hydrogen (ppm)	3.64	2-Furfural (furfuryl alcohol)	0
Breakdown Voltage		IS 6792	Min 50 KV	53	O2 Oxygen (ppm)	12401.935	2-furaldehyde	0
Water Content		IS 13567	Max 20 ppm	17	N2 Nitrogen (ppm)	51297.675	2-Acetylfuran	0
Neutralisation Value		IS 1448(P-2)	Max 0.3 mg KOH/g	0.195	CO Carbomonoxide(ppm)	89.83	5-Methyl -2-furaldehyde	0
Resistivity (× 10 ¹²)	@27°C	IS 6103	Min 1* 10 ¹² Ω-cm	2.12	CO2 Carbondioxide (ppm)	1001.325	Total Furans	0
	@90°C		Min 0.1* 10 ¹² Ω-cm	0.246	CH4 Methane (ppm)	8.385	Estimated DP Value	0.00
Dielectric Disipation Factor	@27°C	IS 6262		0.006560	C2H6 Ethane (ppm)	2.275	Acceptibilities	
	@90°C		Max 1.0	0.05740	C2H4 Ethylene (ppm)	2.6	0 to 100.....Accepatable 101 to 500.....Questaionable 501 to 1500.....Detariorated 1501 to 2500.....Low reliability > 2500.....Replace/Rewind	
Interfacial Tension		IS 6104	Min 15 mN/m	14.5	C2H2 Acetyline (ppm)	0		
Flash Point		IS 1448(P-21)	Min 125 °C	140	TDCG Total Dissolve Combustible Gas (ppm)	106.73	DP ≥ 1000.....Paper practically unaged DP = 999 ... 601Paper slightly aged DP = 600 ... 401Paper medium aged DP = 400 ... 251Paper strongly aged DP = 250 ... 151Paper very strongly aged DP ≤ 150Paper extremely aged	
Sediment & Sludge		IS 1866 (AP-A)	Min 0.02 % by mass	NIL	TDCG/TGC (%)	0.0253		
Remark: Fit for Use				Remark:		Normal	Remark:	0

Humidity :- 36 %

Temperature :- 28 °C

Observation : Transformer Condition is Normal. No action is Needed

Note: 1. Test Result indicates only Tested Sample and Parameter.
 2. Liability of Laboratory is limited to tested parameter.
 3. Certificate cannot be used as Evidence in Court of Law without Prior consent of the laboratory

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 Authorised Signatory
 For Megha Power solutions