FORMAT NO.- MPS/F&F-5A

Sample Particular:

Collected on:-

TEST REPORT

Type Of Oil: Mineral oil

Position:-



Sampling Method(IS 6855)

Temp.-25.7°C &

Hum.-22.7%

Megha Power SolutionS

{ Testing & Diagnostic Solutions } Email - mps.m14@hotmail.com

Contact No. - 9920234842 / 8828085626

Issued to :- RELIANCE INDUSTRIES LIMITED (SEZ PCG)

18/02/2021

VILLAGE: MEGHPAR / PADANA, TALUKA: LALPUR

R-252/415

Ву:-

MPS

Bottle No:

Office & Laboratory: Ground Floor, Sai Ganesh Bldg. Balaji Nagar, Thakurli (E), Thane, Mumbai (MH), 421201

Registered Office: 201, Hawsa CHS, Cholegoan, Thakurli(East), Thane ,421201 (MH)

Atmospheric

condition

Test Certificate No./ ULR No.:- TC538821000000615F

Routine

Test Report Date :- 24/02/2021

DIST: JAMNAGAR-361280, GUJARAT, INDIA Testing Date :- 22/02/2021

Reason of Sampling:

BOTTOM

RIL LIMS

SAMPLE ID

Trans. Detail	Plant	Sub-Station	Code	Sr.No.	Rating	Ratio(KV)	WTI (°C)	OTI (°C)	Make	Mfr Year
-	MRS-4	-	ET-HYH 945-002B	B-30857	174 MVA	220/34.5 KV	44	40	ALSTOM	2015
		Oil Tes	l	(IS 1866-2017)	DGA (Di	issloved Gas A	nalysis) (IS 1059	3,9434)	Furans *	(ASTM :D 5837)
Test Parameter		Test Method	Limits	Test Value	Tested Gases		Limits	Test Value	Tested Contents	Test Value (ppb)
Appereance		IS 335	Clear	Light yellowish colour	TGC Total Gas Content %		6.5		5-Hydroxymethyl- 2-feruldehyde	ND
Density at 29.5 °C		IS 1448(P-16)	Max 0.89 g/cm ³	0.859	H2 Hydrogen (ppm)		50-150	12	2-Furfurol (furfuryl alcohol)	ND
Breakdown Voltage		IS 6792	Min 40 KV	68	O2 Oxygen (ppm)		-	10910	2-furaldehyde	31
Water Content		IS 13567	Max 30 ppm	11	N2 Nitrogen (ppm)		-	50895	2-Acetylfuran	ND
Neutralisation Value		IS 1448(P-2)	Max 0.20 mgKOH/g	0.034	CO Carbomonoxide(ppm)		400-600	204	5-Methyl -2- furaldehyde	ND
Resistivity (×10 ¹²)	@27°c	- IS 6103	Min 04 GΩm	1385	CO2 Carbondi	oxide (ppm)	3800-14000	2114	Total Furans	31
	@90°c		Min 0.2 GΩm	127	CH4 Metha	ane (ppm)	30-110	1	Estimated DP Value	862.47
Dielectric Disipation Factor	@27°c	IS 6262		0.000186	C2H6 Etha	ne (ppm)	20-90	0	<u>Acceptib</u>	<u>ilities</u>
	@90°c	13 0202	Max 0.50	0.001018	C2H4 Ethyle	ene (ppm)	60-280	0	0 to 100Accepatable 101 to 500Questaionable	
Interfacial Tension		IS 6104	Min 22 mN/m	37.4	C2H2 Acety	line (ppm)	02-020 0 501 to 1500Detarion		eliability	
Flash Point		IS 1448(P-21)	Min 125 °C	160	TDCG Total Dissolve Combustible Gas (ppm) 217		7	DP ≥ 1000Paper practically unaged DP = 999 601Paper slightly aged DP = 600		

TDCG/TGC (%)

Remark:

0.0514

Generation of gas is

acceptable.

Note: Sample received in good condition

Sediment & Sludge

Remark:

Humidity:- 38 % Temperature:- 26.6 °C

NIL

Observation: Transformer Condition is Normal. No action is Needed

IS 1866 (AP-A)

Note: $\,$ 1.Test Result indicates only Tested Sample and Parameter.

- 2. Liability of Laborartory is limited to tested parameter.
- 3. Certificate cannot used as Evidence in Court of Law without Prior consent of the laborartary

Min 0.02 % by

mass

Oil is Fit for Use

4 - * Test Value is above scope

Medhamanelon

Authorised Signatory For Megha Power solutions

DP = 600 ... 401 ...Paper medium aged DP = 400 ... 251 ...Paper strongly aged

DP < 150 ..

Remark:

DP = 250 ... 151 ... Paper very strongly aged

.....Paper extremely aged

