Laboratory

Analube Lab, PCERE, 103, PD Patel Institute of Applied Science, Charotar University of Science & Technology (CHARUSAT), Changa,

Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7865 Page 1 of 2

Validity 26.09.2018 to 25.09.2020 Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

CHEMICAL TESTING

I.	LUBRICANTS			
1.	Gear Oil,	Kinematic Viscosity at	ASTM D 445	10 cSt to 100 cSt
	Hydraulic Oil,	40 °C		100 cSt to1000 cSt
	Turbine Oil,	Kinematic Viscosity at	ASTM D 445	1 cSt to 100 cSt
	Compressor Oil,	100 °C		
	Engine Oil,	Viscosity Index	ASTM D2270	80 to 400
	Transmission Oil	Total Acid Number (TAN)	ASTM D 664	0 to 15 mg KOH/gm
		Total Base Number (TBN)	ASTM D 4739	2 mg KOH/gm to
				20 mg KOH/gm
		Water by Karl Fisher	ASTM D 6304	10 mg/kg to
		Apparatus		25,000 mg/kg
		Particle Count	ISO 4406	ISO 00 to ISO 28
		Spectroscopy- Elemental	ASTM D 5185	
		analysis		
		Aluminum		6 mg/kg to 500 mg/kg
		Barium		0.5 mg/kg to 500 mg/kg
		Boron		4 mg/kg to 500 mg/kg
		Calcium		40 mg/kg to 500 mg/kg
		Chromium		1 mg/kg to 500 mg/kg
		Copper		2 mg/kg to 500 mg/kg
		Iron		2 mg/kg to 500 mg/kg
		Lead		10 mg/kg to 500 mg/kg
		Magnesium		5 mg/kg to 500 mg/kg
		Manganese		5 mg/kg to 500 mg/kg
		Molybdenum		5 mg/kg to 500 mg/kg
		Nickel		5 mg/kg to 500 mg/kg
		Phosphorus		10 mg/kg to 500 mg/kg
		Silicon		8 mg/kg to 500 mg/kg
		Silver		0.5 mg/kg to 500 mg/kg

Gaurav Saini	Anuja Anano
Convenor	Program Manag

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sodium		7 mg/kg to 500 mg/kg
		Tin		10 mg/kg to 500 mg/kg
		Titanium		5 mg/kg to 500 mg/kg
		Vanadium		1 mg/kg to 500 mg/kg
		Zinc		60 mg/kg to 500 mg/kg
		Cadmium		1 mg/kg to 500 mg/kg
		Antimony		5 mg/kg to 500 mg/kg
		Potassium		5 mg/kg to 500 mg/kg

Gaurav Saini Anuja Anand Convenor **Program Manager**