

**Laboratory** Electro Kleen Systems-Laboratory Division, No. 20, First Floor,  
Ragava Reddy Colony, East Street, Ashok Nagar, Chennai,  
Tamil Nadu

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-7494 (in lieu of T-1413)

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**Validity** 30.06.2018 to 29.06.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**CHEMICAL TESTING**

I.	LUBRICANTS			
1.	Lubricating Oil	Density @15 °C	IS 1448 (Part 16): 2014	0.8000 g/ml to 1.000 g/ml
		Kinematic Viscosity @40 °C	IS 1448 (Part 25): 1976 (RA 2013)	1 cSt to 500 cSt
		Kinematic Viscosity @100 °C	IS 1448 (Part 25): 1976 (RA 2013)	1 cSt to 70 cSt
		Viscosity Index	IS 1448[P:56]:2013	50 to 170
		Acid Number	ASTM D974-14 <sup>ε2</sup>	0.010 mgKOH/g to 10.000 mgKOH/g
		Total Base Number	IS 1448[P:86]:1977:2016	1.000 mgKOH/g to 15.000 mgKOH/g
		Water	IS 2362:1993 (RA 2015)	0.005 % to 1.0 %
		Flash Point (COC)	IS 1448 (Part 69): 2013	80 °C to 400 °C
		Fire Point (COC)	IS 1448 (Part 69): 2013	80 °C to 400 °C
		Saponification Number	IS 1448[P:55/Sec1] : 2004 : 2016	1 mgKOH/g to 50 mgKOH/g
		Insolubles in Pentane	ASTM D893-14	0 to 1.000 %
		Insolubles in Toluene	ASTM D893-14	0 to 1.000 %
		Water	IS 1448[P:40]:2015	0 to 25 %
		Crackle Test	EKS/SOP/Crackle-13/ Rev 00	Qualitative
		Colour	EKS/SOP/Colour-12/ Rev 00	Qualitative (Visual)
		Appearance	EKS/SOP/Appearance-11/ Rev 00	Qualitative (Visual)