

Laboratory	Mineral Oil Corporation, D-13, Panki Industrial Area, Site-1, Kanpur, Uttar Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	13.01.2015
Certificate Number	T-2317	Valid Until	12.01.2017
Last Amended on	23.02.2015	Page	1 of 2

S. No.	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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I. OILS & LUBRICANTS

1.	Lubricating oil	Colour	IS 1448 (Part 12): 2013	0 to 8 ASTM Colour Unit
		Density	IS 1448 (Part 16):1990 (RA 2007)	0.75 g/ml to 1.00 g/ml
		Kinematic Viscosity at 40 °C	IS 1448 (Part 25): 1976 (RA 2007)	1.5 cst to 750 cst
		Kinematic Viscosity at 100 °C	IS 1448 (Part 25): 1976 (RA 2007)	50 °C to 300 °C
		Flash point (Penskey martin closed cup)	IS 1448 (Part 21): 2012	50 °C to 300 °C
		Copper Corrosion at 100 °C	IS 1448 (Part 15): 2004 (RA 2010)	1a to 4c
		Water content	IS 1448 (Part 40): 1987 (RA 2010)	0.05 % to 25 % (by mass)
		Pour point	IS 1448 (Part 10): 2013	24°C to -39 °C
		Ash Content	IS 1448 (Part 4): 2008	0.001% to 10 % (by mass)
		Flash point (COC)	IS 1448 (Part 69): 2013	80 °C to 300 °C
		Saponification value	IS 1448 (Part 55): 2004	0.1 mg KOH/g to 200 mg KOH/g
		Viscosity Index	IS 1448 (Part 56): 2013	60 to 200
		Acidity Total	IS 1448 (Part 2): 2007	0.005 mg KOH/g to 100 mg KOH/g

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Lubricating Grease	Consistency / Penetration	IS 1448 (Part 60): 1994 (RA 2010)	85 units to 400 units (0.1 mm)
		Copper corrosion at 100 °C	IS 1448 (Part 51): 1963(RA 2003)	1a to 4c
		Drop point	IS 1448 (Part 52): 1971(RA 2007)	50 ⁰ C to 220 ⁰ C
		Acidity & Alkalinity	IS 1448 (Part 53): 2002	0.005 % to 1.0 %(by mass)
		Colloidal stability (Thermal Stability)	IS 1448 (Part 89): 1979	0.0005 % to 20 %(by mass)
		Water content	IS 1448 (Part 40): 2004 (RA 2010)	0.05% to 25 %(by mass)
		Ash Content	IS 1448 (Part 4): 2008	0.0005 % to 10 %(by mass)
		Heat Stability	IS 1448 (Part 62): 1974 (RA 2003)	0.002 % to 7.0 %(by mass)
II. PETROLEUM PRODUCTS				
1.	Petrolatum (petroleum jelly)	Drop Melting Point	IP - 133: 2001	40 °C to 100 °C
		Consistency / Penetration	IS 1448 (Part 92): 1979 (RA 2002)	85 units to 400 units (0.1 mm)

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