Quality Control laboratory - Indian Oil Corporation Ltd., Lube Oil Blending Plant - Asaoti, Village & P.O. Asaoti, District: Palwal, Laboratory

Haryana

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

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Validity 03.11.2017 to 02.11.2019 Last Amended on --

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

## **CHEMICAL TESTING**

I.	LUBRICANTS			
1.	Automotive, Industrial &	ASTM Colour	ASTM D1500-12,IS 1448 P12-13	0 to 8.0
	Speciality Oil	Flash point (COC)	ASTM D92-16B (2012b),IS 1448 P69-13	80°C to 400°C
		Pour Point	ASTM D97 -17,IS 1448 P10- 13	45°C to -48°C
		Kinematic Viscosity KV @100°C KV @ 40°c Viscosity Index	ASTM D445-17A,IS 1448 P10-13 ASTM D2270-10 (2016),	1.3 Cst to 2000 Cst. 2 Cst to 5000 Cst. 80 to 200
		Sulphated ash	ASTM D874-13A	0.005% wt to 5.0% wt
		Total Base Number (TBNE)	ASTM D2896-15 IS 1448 P86-1977 (RA 2006)	0.5 mg KoH/g to 200 mg KoH/g
		Total Base Number (TBNE)	LBP/QC/WI/15 (Issue No. 01,Date 02.01.2017)	0.5 mg KoH/g to 200 mg KoH/g
		Total Acid Number	ASTM D974-14 E2	0.01 mg KoH/g to 250 mg KoH/g
		Apparent Viscosity by Cold Cranking Simulator.	ASTM D5293-15	1000 Cp to 25000 Cp
		Low Temperature Viscosity by Rotational Viscometer	ASTM D 2983-17	500 Cp to 900000 Cp
		Noack Volatility	ASTM D5800-15A	1% to 25%
		High Shear Viscosity (HTHS)	ASTM D 4683-17	1.5 cSt to 7.5 cSt
		Emulsion Test	ASTM D1401-12e1-2012,IS 1448 P91	5 min to 60 min

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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
		Density	ASTM D 4052	0.7000 g/ml to 1.2 g/ml
		Density	ASTM D 1298-12B, IS 1448 P-16	0.7000 g/ml to 1.2 g/ml
		Moisture (Crackle)	IS 4543:1977 App B	Qualitative (Pass / Fail)

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