National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, LUBE BLENDING PLANT, INDIAN OIL CORPORATION LTD., PIR PAU, TROMBAY, MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5599 **Page No** 1 of 2

Validity 07/06/2022 to 06/06/2024 **Last Amended on** 08/09/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- LUBRICANTS	Lubricant	Apparent Viscosity	ASTM D 5293
2	CHEMICAL- LUBRICANTS	LUBRICANT	Appearance	IOC/LBPT-M/01
3	CHEMICAL- LUBRICANTS	Lubricant	Refractive Index	ASTM D 1218
4	CHEMICAL- LUBRICANTS	Lubricant	Total Base Number (TBN) (Perchloric Acid titration)	ASTM D 2896
5	CHEMICAL- LUBRICANTS	Lubricant	XRF (ED) - Calcium	ASTM D 7751
6	CHEMICAL- LUBRICANTS	Lubricant	XRF (ED) - Calcium	ASTM D 7751
7	CHEMICAL- LUBRICANTS	Lubricants	Corrosiveness to Copper (Copper Strip Method)	ASTM D 130
8	CHEMICAL- LUBRICANTS	Lubricants	XRF (ED) - Phosphorous	ASTM D 7751
9	CHEMICAL- LUBRICANTS	Lubricants	Acid Number (Color-Indicator Titration)	ASTM D 974
10	CHEMICAL- LUBRICANTS	Lubricants	Aniline Point	ASTM D 611
11	CHEMICAL- LUBRICANTS	Lubricants	Apparent viscosity at High Temperature High Shear	ASTM D 4683
12	CHEMICAL- LUBRICANTS	Lubricants	Ash % (by weight)	ASTM D 482
13	CHEMICAL- LUBRICANTS	Lubricants	Colour by ASTM Scale	ASTM D 1500
14	CHEMICAL- LUBRICANTS	Lubricants	Density	ASTM D 1298
15	CHEMICAL- LUBRICANTS	Lubricants	Density	ASTM D 4052
16	CHEMICAL- LUBRICANTS	Lubricants	Emulsion	IS:1448 P:98
17	CHEMICAL- LUBRICANTS	Lubricants	Flash Point Pensky-Martens Closed Cup	ASTM D 93
18	CHEMICAL- LUBRICANTS	Lubricants	Foaming Characteristics	ASTM D 892
19	CHEMICAL- LUBRICANTS	Lubricants	Frothing test	IS:1448 P:99
20	CHEMICAL- LUBRICANTS	Lubricants	Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity) -At 100°C - At 40°C	ASTM D 445
21	CHEMICAL- LUBRICANTS	Lubricants	Low-Temperature Viscosity	ASTM D 2983
22	CHEMICAL- LUBRICANTS	Lubricants	Moisture (by crackle)	IS:4543
23	CHEMICAL- LUBRICANTS	Lubricants	Pour Point	ASTM D 97
24	CHEMICAL- LUBRICANTS	Lubricants	Rust-Preventing Characteristics	ASTM D 665

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25	CHEMICAL- LUBRICANTS	Lubricants	Sulfated Ash	ASTM D 874
26	CHEMICAL- LUBRICANTS	Lubricants	Thermal stability	IS:1448 P:100
27	CHEMICAL- LUBRICANTS	Lubricants	Viscosity Index	ASTM D 2270
28	CHEMICAL- LUBRICANTS	Lubricants	Water Separability,Emulsion characteristics	ASTM D 1401
29	CHEMICAL- LUBRICANTS	Lubricants	XRF (ED) -Sulphur	ASTM D 7751
30	CHEMICAL- LUBRICANTS	Lubricants	XRF (ED) -Zinc	ASTM D 7751
31	CHEMICAL- LUBRICANTS	Lubricants	XRF (ED) - Phosphorous	ASTM D 7751
32	CHEMICAL- LUBRICANTS	Lubricants	XRF (ED) - Zinc	ASTM D 7751
33	CHEMICAL- LUBRICANTS	Lubricants	XRF (ED) -Sulphur	ASTM D 7751
34	CHEMICAL- LUBRICANTS	Lubricating oils	Flash and Fire Points by Cleveland Open Cup Tester	ASTM D 92