National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PENTAGON LUBRICANTS (INDIA) PVT. LTD., 2/553, AGRAHARAM, METTU STREET, IYYAPPANTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10131 **Page No** 1 of 3

Validity 14/12/2021 to 13/12/2023 **Last Amended on** -

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	Automotive Industrial & Speciality Lubricants	ASTM Color of Petroleum Products	ASTM D1500
2	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty grease	Acidity of Grease	IS: 1448 P-53
3	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty grease	Alkalinity of Grease	IS: 1448 P-53
4	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty grease	Copper strip corrosion Test for lubricating grease	ASTM D 4048
5	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty grease	Measurement of Extreme pressure properties of lubricating grease by Four ball test method	ASTM D 2596
6	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty grease	Salt spray test	ASTM B 117-16
7	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty grease	Unworked Penetration of Lubricating Grease	ASTM D217
8	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty grease	Wear preventive Characteristics of lubricating grease by Four ball test method	ASTM D 2266-01
9	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty Greases	Drop point of lubricating grease	ASTM D 566
10	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Acid number by color indication method	ASTM D- 974
11	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Air release value	ASTM D 3427
12	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Aniline point of petroleum products	ASTM D611
13	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Base number of petroleum products by potentiometric titration	ASTM D2896
14	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Cast Iron corrosion test	IS:1115 , Appendix A
15	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Channeling point	IS 1118 Annex A
16	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Copper strip corrosion test for petroleum products	ASTM D130
17	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Density of petroleum products By Hydrometer	ASTM D1298-12b
18	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Emulsion Stability	IS 1448 P:98
19	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Extreme pressure properties of lubricating fluids by four ball test method	ASTM D2783

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20	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Flash point by Cleveland open cup tester	ASTM D92
21	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Foam Characteristics of lubricating oils	ASTM D 892
22	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Frothing test	IS1448 P:99
23	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Kinematic viscosity @ 40°C of Transparent and opaque fluids	ASTM D 445
24	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Kinematic viscosity @100°C of transparent and opaque fluids	ASTM D-445
25	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	pH	ASTM D 1287
26	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Pour point of petroleum products	ASTM D97
27	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Quenching speed of heat treating fluids by Magnetic Quenchometer	ASTM D 3520-04
28	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Reserve Alkalinity of engine coolants	ASTM D 1121
29	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Rust preventive characteristics of inhibited mineral oil in presence of water	ASTM D 665
30	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Rust protection by metal preservatives by Humidity cabinet test	ASTM D 1748-10
31	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Sulphated Ash from lubricating oils	ASTM D 874-13
32	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Viscosity Index	ASTM D2270-10
33	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Water content in petroleum products	ASTM D 95
34	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Water separability of petroleum oils	ASTM D1401
35	CHEMICAL- LUBRICANTS	Automotive, Industrial & Specialty lubricants	Wear preventive characteristics of lubricating fluid by Four ball test method	ASTM D 4172
36	CHEMICAL- LUBRICANTS	Grease	Worked of penetration of lubricating grease	ASTM D 217-19b
37	CHEMICAL- LUBRICANTS	Lubricants	Appearance	PLIPL /NABL/LAB/D01 Issue No:2

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38	CHEMICAL- LUBRICANTS	Lubricants	Saponification number of Petroleum products	ASTM D94
39	CHEMICAL- LUBRICANTS	Lubricating oils	Ash from petroleum products	ASTM D 482