National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HARDCASTLE PETROFER PVT. LTD., PLOT NO 1906 ,1908,1910,1912,GIDC ,PHANSA ROAD,, SARIGAM, VALSAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 05/04/2021 to 04/04/2023 **Last Amended on** 21/10/2021

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	Gear Oils	Density at 29.5°C	IS 1448 : P 16, ASTM D 1298, ASTM D 7042
2	CHEMICAL- LUBRICANTS	Gear Oils	Flash Point	IS 1448 : P 69, ASTM D 92
3	CHEMICAL- LUBRICANTS	Gear Oils	Kinematic Viscosity @ 100°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
4	CHEMICAL- LUBRICANTS	Gear Oils	Kinematic Viscosity @ 40°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
5	CHEMICAL- LUBRICANTS	Gear Oils	Neutralization number/Acid Number	IS 1448 : P 2, ASTM D 974, ASTM D 664
6	CHEMICAL- LUBRICANTS	Gear Oils	Viscosity Index	IS 1448 : P 56, ASTM D 2270
7	CHEMICAL- LUBRICANTS	Gear Oils/HFB Oils/Hisafe DU Oils/Hydraulic Oils/Neat Cutting Oils/Polymer Quenchants/Quenching Oils/Soluble Cutting Oils.	Colour and Appearance	QC/W/24-B
8	CHEMICAL- LUBRICANTS	HFB Oils	Emulsion Stability @ 70°C, 48 hrs., Free Water	IS 10532 P: 2 Appx. A
9	CHEMICAL- LUBRICANTS	HFB Oils	Foaming Stability, ml at 24 deg C	IS 1448 : P 67
10	CHEMICAL- LUBRICANTS	HFB Oils	Kinematic Viscosity @ 40°C	IS 1448 : P 25
11	CHEMICAL- LUBRICANTS	HFB Oils	Relative density at 15°/ 15°C	IS 1448 : P 16, ASTM D 1298
12	CHEMICAL- LUBRICANTS	HFB Oils	Water content	IS 1448 : P 40
13	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Copper Corrosion @ 100°C for 3 hrs.	IS 1448 : P 15, ASTM D 130
14	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Density at 29.5°C	IS 1448 : P 16, ASTM D 1298, ASTM D 7042
15	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Fire Point	IS 1448 : P 69, ASTM D 92
16	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Flash Point	IS 1448 : P 69, ASTM D 92
17	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Kinematic Viscosity @ 100°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
18	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Kinematic Viscosity @ 40°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
19	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Neutralization number / Acid Number	IS 1448 : P 2, ASTM D 974, ASTM D 664
20	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Viscosity Index	IS 1448 : P 56, ASTM D 2270
21	CHEMICAL- LUBRICANTS	Hisafe DU Oils	Water Content	IS 2362, ASTM D 1744

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22	CHEMICAL- LUBRICANTS	Hydraulic Oils	Copper Corrosion @ 100°C for 3 hrs.	IS 1448 : P 15
23	CHEMICAL- LUBRICANTS	Hydraulic Oils	Density at 29.5°C	IS 1448 : P 16, ASTM D 1298, ASTM D 7042
24	CHEMICAL- LUBRICANTS	Hydraulic Oils	Fire Point	IS 1448 : P 69, ASTM D 92
25	CHEMICAL- LUBRICANTS	Hydraulic Oils	Flash Point	IS 1448 : P 69, ASTM D 92
26	CHEMICAL- LUBRICANTS	Hydraulic Oils	Kinematic Viscosity @ 100°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
27	CHEMICAL- LUBRICANTS	Hydraulic Oils	Kinematic Viscosity @ 40°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
28	CHEMICAL- LUBRICANTS	Hydraulic Oils	Neutralization number/Acid Number	IS 1448 : P 2, ASTM D 974, ASTM D 664
29	CHEMICAL- LUBRICANTS	Hydraulic Oils	Viscosity Index	IS 1448 : P 56, ASTM D 2270
30	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Copper Corrosion @ 100°C for 3 hrs.	IS 1448 : P 15, ASTM D 130
31	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Density at 29.5 °C	IS 1448 : P 16, ASTM D 1298, ASTM D 7042
32	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Fire Point	IS 1448 : P 69, ASTM D 92
33	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Flash Point	IS 1448 : P 69, ASTM D 92
34	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Kinematic Viscosity @ 100°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
35	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Kinematic Viscosity @ 40°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
36	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Neutralization number/Acid Number	IS 1448 : P 2, ASTM D 974, ASTM D 664
37	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Viscosity Index	IS 1448 : P 56, ASTM D 2270
38	CHEMICAL- LUBRICANTS	Neat Cutting Oils	Water Content/Moisture	IS 2362, ASTM D 1744
39	CHEMICAL- LUBRICANTS	Polymer Quenchants	Density at 29.5°C	IS 1448 : P 16, ASTM D 1298
40	CHEMICAL- LUBRICANTS	Polymer Quenchants	Kinematic Viscosity @ 40°C	IS 1448 : P 25, ASTM D 445
41	CHEMICAL- LUBRICANTS	Polymer Quenchants	Refractive Index at 20°C	ASTM D 1218
42	CHEMICAL- LUBRICANTS	Polymer Quenchants	Separation Temperature	AMS 3025 Rev. E
43	CHEMICAL- LUBRICANTS	Polymer Quenchants	Water Content	ASTM E203
44	CHEMICAL- LUBRICANTS	Polymer Quenchants / Soluble Cutting Oils	pH	QC/W/53
45	CHEMICAL- LUBRICANTS	Quenching Oils	Density at 29.5°C	IS 1448 : P 16, ASTM D 1298, ASTM D 7042

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46	CHEMICAL- LUBRICANTS	Quenching Oils	Fire Point	IS 1448 : P 69
47	CHEMICAL- LUBRICANTS	Quenching Oils	Flash Point	IS 1448 : P 69, ASTM D 92
48	CHEMICAL- LUBRICANTS	Quenching Oils	Kinematic Viscosity at 100°C	IS 1448: P 25, ASTM D 445, ASTM D 7042
49	CHEMICAL- LUBRICANTS	Quenching Oils	Kinematic Viscosity at 40°C	IS 1448 : P 25, ASTM D 445, ASTM D 7042
50	CHEMICAL- LUBRICANTS	Quenching Oils	Viscosity Index	IS 1448 : P 56, ASTM D 2270
51	CHEMICAL- LUBRICANTS	Quenching Oils	Water Content	IS 2362, ASTM D 1744
52	CHEMICAL- LUBRICANTS	Soluble cutting oils	Density at 29.5°C	IS 1448 : P 16, ASTM D 1298
53	CHEMICAL- LUBRICANTS	Soluble cutting oils	Kinematic Viscosity @ 40°C	IS 1448 : P 25, ASTM D 445
54	CHEMICAL- LUBRICANTS	Soluble cutting oils	Water Content/Moisture	IS 1448 : P 40