National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GLOBAL METALLURGY & CHEMISTRY LABORATORY, SKF ENGINEERING AND LUBRICATION INDIA PRIVATE LIMITED, PLOT NO-2, BOMMASANDRA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5510 **Page No** 1 of 4

Validity 27/10/2022 to 26/10/2024 **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	Grease, Lubricating oil, Quenching Oil	Moisture Content	ASTM D6304
2	CHEMICAL- LUBRICANTS	Lubricating Grease	Penetration of 1. Standard Cone (Worked and Unworked) 2. Half Cone (Worked and Unworked)	DIN ISO 2137
3	CHEMICAL- LUBRICANTS	Lubricating oil, Quenching Oil	Flash Point	ASTM D93 A&B
4	CHEMICAL- LUBRICANTS	Lubricating Oils, Quenching Oil	Kinematic Viscosity (@ 40 °C and 80 °C)	DIN 51562-1
5	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Aluminum	ASTM E 415
6	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Arsenic	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Calcium	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Carbon	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Chromium	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Copper	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Manganese	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Molybdenum	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Nickel	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Phosphorous	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Silicon	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Sulphur	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Tin	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Titanium	ASTM E415

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19	CHEMICAL- METALS & ALLOYS	Bearing Steel-Carbon and Low Alloy Steel	Vanadium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E1999
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E1999
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E1999
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E1999
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E1999
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosporous	ASTM E1999
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E1999
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E1999
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E1999
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E1999
32	CHEMICAL- METALS & ALLOYS	Iron and Steel	Carbon	ASTM E1019
33	CHEMICAL- METALS & ALLOYS	Iron and Steel	Nitrogen	ASTM E1019
34	CHEMICAL- METALS & ALLOYS	Iron and Steel	Oxygen	ASTM E1019
35	CHEMICAL- METALS & ALLOYS	Iron and Steel	Sulphur	ASTM E1019
36	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Evaluation of elements by Energy Dispersive Analysis (EDS).	ASTM-E1508

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37	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Fractography	ASM Handbook Vol. 12-Fractography
38	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Measurement of Coating Thickness using Scanning electron Microscope	ASTM B 748
39	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Measurement of residual stress by X-ray Diffraction Method	ASTM E 2860 (Omega Method),
40	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Measurement of Retained Austenite by X-ray Diffraction Method	ASTM E 975
41	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Microstructure Analysis (Microscopic Method)	ASM Metals Handbook Volume 9, Metallography & Microstructures
42	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Microstructure Analysis (Microscopic Method)	ISO 945-1
43	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Non Metallic Inclusion Test	ASTM E45 Method A&E
44	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Non Metallic Inclusion Test	DIN 50602 Method K
45	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Non Metallic Inclusion Test	ISO 4967 Method A
46	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Rockwell Hardness Test	ISO 6508 Part 1
47	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Tensile Test: % Reduction in Area	ISO 6892-1
48	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Tensile Test: Proof Stress, Ultimate Tensile Stress	ISO 6892-1
49	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Vickers Hardness Test (Load 1Kg)	ISO 6507 Part 1
50	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Vickers Hardness Test(HV30)	ISO 6507-1
51	MECHANICAL-METALLOGRAPHY TEST	Ferrous & non-ferrous Material	Vickers Hardness Test(Load 10 Kg)	ISO 6507-1
52	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non Ferrous Material	Rockwell Hardness Test	ISO 6508 Part 1
53	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Carbide Size, Pearlite Amount, Carbide Network -4th & 5th Series, Carbide Segregation -6th & 7th Series (Microscopic Method)	SEP 1520

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54	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Depth of Decarburization Test (Microscopic Method)	ASTM E1077
55	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Determination of case depth (Hardness Method using HV1)	ISO 18203
56	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Grain size Test (Comparison Method)	ASTM E-112
57	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Grain size Test (Comparison Method)	ISO-643
58	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Macro Etch Test	ASTM E381
59	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material	Tensile Test: %Elongation	ISO 6892-1