



ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

Lub-rref (Bangladesh) Ltd. [BNO Lubricants]

B-6 (Part) 9-10 & 23-24, BSCIC Industrial Estate, Block-A

P.O:Custom Academy Sagarika Road, Chittagong, Bangladesh.

This is to certify that this

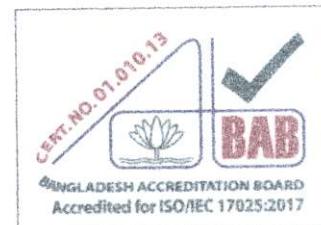
Testing Laboratory

is accredited in accordance with the international standard

ISO/IEC 17025:2017

in respect of the associated scope, subject to the terms and conditions governing the relevant conformity assessment body (CAB) accreditation.

Certificate Number	:	01.010.13
Accreditation Date	:	22 December 2013
Date of Issuance	:	19 March 2025 (5th Renewal)
Date of Expiration	:	21 December 2027



19.03.2025
Md. Anwarul Alam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.



ACCREDITATION SCHEME

(For Testing Laboratory)

CAB Name & Address: Lub-rref (Bangladesh) Ltd. [BNO Lubricants], B-6 (Part) 9-10 & 23-24, BSCIC Industrial Estate, Block-A, Post Office: Custom Academy, Sagarika Road, Chattogram-4219, Bangladesh

Accreditation Standard: ISO/IEC 17025:2017

Accreditation Date: 22 December 2013

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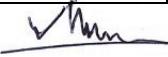
Issued on: 19 March 2025 (5th Renewal)

Last Amended on: NA

Valid until: 21 December 2027

Amendment no: NA

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniq ues used	Range of testing/Limit of detection
Field: Testing				
1	Petroleum Products (Fuels and Lubricants)	Determination of Acid Number of Petroleum Products by Potentiometric Titration	ASTM D664, IP 177	0.1-150 mg/g KOH
2	Petroleum Products (Lubricants)	Determination of Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration	ASTM D2896, IP 276	≤ 300 mg/g KOH
3	Petroleum Products (Lubricants and Fuel Oils)	Determination of Water in Petroleum Products Dean-Stark.	ASTM D95	0-25%
4	Petroleum Products (Engine Lubricants)	Determination of Additive Elements, Wear Metals in Lubricating oils and contaminants in Used oil by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D4951, ASTM D5185	Trace Level, (ppm)
5	Petroleum Products (Petroleum products and chemicals)	Standard Practice for Condition Monitoring of In-Service Lubricants by Trend Analysis Using Fourier Transform Infrared (FT-IR) Spectrometry/ (Oxidation and Nitration Test).	ASTM E 2412	8300-350 cm ⁻¹
6	Petroleum Products (Electrical Insulating Oil)	Determination of Gases Dissolved in Electrical Insulating Oil by Gas Chromatography	ASTM D3612	Trace Level, (ppm)
7	Petroleum Products (Fuel Oils)	Determination of Flash-Point by Pensky- Martens Closed Cup (PMCC) Tester	ASTM D93, IP D34	40°C-370°C
8	Petroleum Products (Fuels and Lubricants)	Determination of Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)	ASTM D445	0.2-300000 mm ² /s
9	Petroleum Products (Electrical Insulating	Determination of Dissipation Factor (or Power Factor) and Relative Permittivity (Dielectric Constant) of Electrical	IEC 60247, ASTM D924	0.0001-999


Quality Manager



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Accreditation Standard: ISO/IEC 17025:2017 **Accreditation Date:** 22 December 2013

Certificate Number: 01.010.13 **Issued on:** 19 March 2025 (5th Renewal)

Last Amended on: NA **Valid until:** 21 December 2027

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniq ues used	Range of testing/Limit of detection
	Oil)	Insulating Liquids		
10	Petroleum Products (Electrical Insulating Oil)	Determination of Furanic Compounds in Electrical Insulating Liquids by High- Performance Liquid Chromatography (HPLC)	ASTM D5837	Trace Level, (ppb)
11	Petroleum Products (Fuels and Lubricants)	Determination of Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity).	ASTM D7042	0.2-10000 mm ² /s
12	Petroleum Products (Electrical Insulating Oil)	Determination of Dielectric Breakdown Voltage of Insulating Liquids Using Disk Electrodes	ASTM D877, IEC 60156	10-100 KV
13	Petroleum Products (Petroleum products and chemicals)	Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fischer Titration	ASTM D6304	Trace Level, (ppm)
14	Petroleum Products (Fuels and Lubricants)	Hydraulic fluid power — Fluids — Method for coding the level of contamination by solid particles	ISO 4406	No. of particle in $\mu\text{m}/100\text{ml}$
15	Petroleum Products (Fuels and Lubricants)	Determination of Polychlorinated biphenyls (PCBs of Lubricating oil	ASTM D 4059	Trace Level, (ppm)
16	Petroleum Products (Fuels and Lubricants)	Determination of Sulfur in petroleum and Petroleum products by Energy Dispersive X-ray Fluorescence Spectrometry	ASTM D4294	0-5%

END


Quality Manager