



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 : **5 January 2022**
Date of Expiration : **21 December 2024**



Md. Monwarul Islam
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

Certificate Number: 01.010.13

Issued on: 5 January 2022

Last Amended on: -

Valid until: 21 December 2024

Amendment no:-

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	Determination of Acid Number of Petroleum Products by Potentiometric Titration	ASTM D664	0.1-150 mg/g KOH
2	Petroleum Products	Determination of Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration	ASTM D2896	≤ 300 mg/g KOH
3	Petroleum Products and Bituminous Materials	Determination of Water in Petroleum Products and Bituminous Materials by Distillation	ASTM D95	0-25%
4	Petroleum Products	Determination of Additive Elements in Lubricating Oils, Multielement Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	ASTM D4951, ASTM D5185	Trace Level, (ppm)
5	Petroleum Products	Standard Practice for Condition Monitoring of In-Service Lubricants by Trend Analysis Using Fourier Transform Infrared (FT-IR) Spectrometry.	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	Determination of Flash-Point by Pensky-Martens Closed Cup (PMCC) Tester	ASTM D93	40 ⁰ C-370 ⁰ C
8	Petroleum Products	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 Liquids)	Determination of Dissipation Factor (tan δ) (or Power Factor), Relative Permittivity (Dielectric Constant) and d.c. resistivity of Electrical Insulating Liquids	IEC 60247, ASTM D924	0.0001-999



Quality Manager

ACCREDITATION SCHEME

(For Testing Laboratory)

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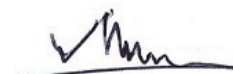
Last Amended on: -

Valid until: 21 December 2024

Amendment no:-

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
10	Petroleum Products (Electrical Insulating Liquids)	Determination of Furanic Compounds in Electrical Insulating Liquids by High-Performance Liquid Chromatography (HPLC)	ASTM D5837	Trace Level, (ppb)
11	Petroleum Products	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 (Insulating Liquids)	Determination of the breakdown voltage at power frequency — Test method	IEC 60156, ASTM D877	10-100 KV
13	Petroleum Products	Determination of Water in Petroleum Products, Lubricating Oils and Additives by Coulometric Karl Fischer Titration	ASTM D6304	Trace Level, (ppm)
14	Petroleum Products and other Hydraulic Fluids	Hydraulic fluid power — Fluids — Method for coding the level of contamination by solid particles	ISO 4406	No. of particle in µm/100ml
15	Insulating Liquids	Analysis of Polychlorinated Biphenyls in Insulating Liquids by Gas Chromatography	ASTM D4059	Trace Level, (ppm)
16	Petroleum Products	Determination of Sulfur in petroleum and Petroleum products by Energy Dispersive X-ray Fluorescence Spectrometry	ASTM D4294	0-5%

END



Quality Manager