



## Bangladesh Accreditation Board (BAB)

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# Certificate of Accreditation

This is to certify that

**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.**

has been granted accreditation in respect of the scope of accreditation described in the attached document, subject to the terms and conditions governing the relevant Conformity Assessment Body (CAB) accreditation

This Testing Laboratory having met the requirements of ISO/IEC 17025:2005 and the BAB, is accredited for Petroleum Products Testing as described in the associated Scope of Accreditation.



**Certificate Number :** 01.010.13

**Issued on :** 28 June 2018

**Accreditation Date :** 22 December 2013

**Valid until :** 21 December 2021

**Md. Monwarul Islam**

**Director General**

**Bangladesh Accreditation Board (BAB)**

This certificate has been issued under the authority of Bangladesh Accreditation Act, 2006 and must be returned on request; reproduction must follow guidelines in place at date of issue. For the specific scopes to which this accreditation applies, please refer to the directory of accredited CABs at <http://www.bab.org.bd/directory-of-accredited-cabs>

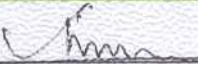
## SCOPE OF ACCREDITATION

(For Testing Laboratory)

**CAB Name & Address:** **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 – 4219, Bangladesh.**

**Accreditation Standard:** ISO/IEC 17025:2005      **Accreditation Date:** 22 Dec 2013  
**Certificate Number:** 01.010.13      **Issued on:** 28 June 2018  
**Last Amended on:** NA      **Valid until:** 21 Dec 2021  
**Amendment no:** NA

S. N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>Field: Chemical Testing</b>				
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
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	—
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 (Electrical Insulating Oil)	Determination of Furanic Compounds in Electrical Insulating Liquids by High-Performance Liquid Chromatography (HPLC)	ASTM D5837	Trace Level, ppb
<b>Field: Physical Testing (Lubricants and Fuel Oils)</b>				
1.	Petroleum Products	Determination of Dynamic	ASTM D7042	0.2-10000

  
 Quality Manager

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S. N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	(Fuels and Lubricants)	Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity).		mm <sup>2</sup> /s
2.	Petroleum Products (Fuel Oils)	Determination of Flash-Point by Pensky-Martens Closed Cup (PMCC) Tester	ASTM D93, IP D34	40 <sup>o</sup> C-370 <sup>o</sup> C
3.	Petroleum Products (Electrical Insulating Oil)	Determination of Dielectric Breakdown Voltage of Insulating Liquids Using Disk Electrodes	ASTM D877, IEC 60156	—
4.	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
5.	Petroleum Products (Electrical Insulating Oil)	Determination of Dissipation Factor (or Power Factor) and Relative Permittivity (Dielectric Constant) of Electrical Insulating Liquids	IEC 60247, ASTM D924	—
6.	Petroleum Products (Fuels and Lubricants)	Hydraulic fluid power — Fluids — Method for coding the level of contamination by solid particles	ISO 4406	—

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 Quality Manager