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Accreditation No: LAB 255

Awarded to

**NATIONAL REFINERY LIMITED LABORATORY
7-B Korangi Industrial Area Karachi-74900,
KARACHI, PAKISTAN.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **21-02-2022** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **20-02-2025**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

12-04-2023
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Director General

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Testing Laboratory.

Accreditation Scope of **NATIONAL REFINERY LIMITED**
7-B Korangi Industrial Area Karachi-74900, **KARACHI, PAKISTAN.**

Permanent laboratory premises

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
NAPHTHA & EXPORT NAPHTHA	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Sulfur	ASTM D 4294 - 21
	Petroleum Testing	Saybolt Color	ASTM D 156-15
Kerosene	Petroleum Testing	Sulfur	ASTM D 4294 - 21
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Saybolt Color	ASTM D 156-15

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Kerosene	Petroleum Testing	Flash Point (ABEL)	IP 170
Premium Motor Gasoline (PMG) / MOGAS	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Sulfur	ASTM D 4294 - 21
JP-1 & JP-8	Petroleum Testing	Flash Point	ASTM D 93-20
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Sulfur	ASTM D 4294 - 21
	Petroleum Testing	Saybolt Color	ASTM D 156-15
	Petroleum Testing	Flash Point (ABEL)	IP 170

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LDO	Petroleum Testing	Flash Point	ASTM D 93-20
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Sulfur	ASTM D 4294 - 21
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	High Speed Diesel (HSD) & High Speed Diesel (HSD Euro V)	Petroleum Testing	Flash Point
Petroleum Testing		Color	ASTM D1500 -12 (Reapproved 2017)

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High Speed Diesel (HSD) & High Speed Diesel (HSD Euro V)	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Sulfur	ASTM D 4294 - 21
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
Furnace Oil (F/Oil)	Petroleum Testing	Flash Point	ASTM D 93-20
	Petroleum Testing	Sulfur	ASTM D 4294 - 21
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
Lube Base Oil (LBO) Spindle Oil	Petroleum Testing	Flash Point	ASTM D 93-20

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Lube Base Oil (LBO) Spindle Oil	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)
	Lube Base Oil (LBO) 65NHVI	Petroleum Testing	Flash Point
Petroleum Testing		Color	ASTM D1500 -12 (Reapproved 2017)

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Lube Base Oil (LBO) 65NHVI	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)
Lube Base Oil (LBO) 100NMVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a

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Lube Base Oil (LBO) 100NMVI	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)
Lube Base Oil (LBO) 100NHVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)

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Lube Base Oil (LBO) 150NHVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	<i>Pour Point</i>	<i>ASTM D 97 – 17b(2022)</i>
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)

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Lube Base Oil (LBO) 400NHVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)

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Lube Base Oil (LBO) 500NHVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)

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Lube Base Oil (LBO) 650NMVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)

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Lube Base Oil (LBO) BSHVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)

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Lube Base Oil (LBO) BSMVI	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
	Petroleum Testing	Density	ASTM D 4052 - 22
	Petroleum Testing	Kin Viscosity @ 40°C	ASTM D 7042-21a
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
	Petroleum Testing	Viscosity Index	ASTM D 2270 – 10(2016)

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Extract Oil & Extract Oil Export(Exp)	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Sulfur	ASTM D 4294 - 21
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
Rubber Process Oil (RPO)	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
	Petroleum Testing	Pour Point	ASTM D 97 – 17b(2022)
Carbon Oil	Petroleum Testing	Flash Point	ASTM D 92-18
	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)

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Carbon Oil	Petroleum Testing	Kin Viscosity @ 100°C	ASTM D 7042-21a
Slack Wax Low Melt Wax (LMW)	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
Slack Wax Medium Melt Wax (MMW)	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
Slack Wax High Melt Wax (HMW)	Petroleum Testing	Color	ASTM D1500 -12 (Reapproved 2017)
ASPHALT & BITUMEN Export (Exp)	Petroleum Testing	Flash Point	ASTM D 92-18

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