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CERTIFICATE OF ACCREDITATION

This is to attest that

INSPECTORATE INTERNATIONAL SAUDI ARABIA LIMITED – BUREAU VERITAS

BUILDING NUMBER 309B, YANBU HAII A MEHAN, NAHWAND STREET, KING FAISAL ROAD, ROYAL COMMISSION, YANBU, 37500, SAUDI ARABIA

Testing Laboratory TL-1074

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date April 24, 2024

IAS ACCREDITED

_____
President

SCOPE OF ACCREDITATION
International Accreditation Service, Inc.
3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

INSPECTORATE INTERNATIONAL SAUDI ARABIA LIMITED – BUREAU VERITAS
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Accredited to ISO/IEC 17025:2017   *Effective Date April 24, 2024*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Petroleum – Chemistry	Petroleum and Petroleum Products	Petroleum Distillation	**ASTM D86-23a** Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure
		Flash Point	**ASTM D93-20** Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
		Water	**ASTM D95-23** Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
		Pour Point	**ASTM D97-17b (2022)** Standard Test Method for Pour Point of Petroleum Products
		Copper Corrosiveness	**ASTM D130-19** Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
		Kinematic Viscosity Dynamic viscosity (by calculation)	**ASTM D445-23** Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
		Ash	**ASTM D482-19** Standard Test Method for Ash from Petroleum Products
		Acid Number	**ASTM D664-18e2** Standard Test Method for Acid Number of Petroleum

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Petroleum – Chemistry continued	Petroleum and Petroleum Products continued		Products by Potentiometric Titration
		Distillation Range of Monoethylene Glycol (MEG	**ASTM D1078-11 (Reapproved 2019)** Standard Test Method for Distillation Range of Volatile Organic Liquids
		Color	**ASTM D1209-05(2019)** Standard Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)
		ASTM Color	**ASTM D1500-12(2017)** Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
		Acidity as Acetic Acid of Monoethylene Glycol (MEG)	**ASTM D1613-17 (Reapproved 2023)** Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products
		Water Miscibility of Monoethylene Glycol (MEG)	**ASTM D1722-09 (Reapproved 2023)** Standard Test Method for Water Miscibility of Water-Soluble Solvents
		Lead	**ASTM D3237-22** Standard Test Method for Lead in Gasoline by Atomic Absorption Spectroscopy
		Manganese	**ASTM D3831-22** Standard Test Method for Manganese in Gasoline by Atomic Absorption Spectroscopy
		Density, Relative Density, and API Gravity of Liquids by Digital Density Meter	**ASTM D4052-22** Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter
		Sulfur	**ASTM D4294-21** Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Petroleum – Chemistry continued	Petroleum and Petroleum Products continued		Dispersive X-ray Fluorescence Spectrometry
		Micro Carbon Residue	**ASTM D4530-15(2020)** Standard Test Method for Determination of Carbon Residue (Micro Method)
		Cold Filter Plugging Point	**ASTM D6371-17a** Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels
		Dynamic Viscosity of Used Lubricant Oil at 40 and 100°C	**ASTM D7042-21a** Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity)
		Viscosity Index	**ASTM D7042-21a** Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity)
		Iron in Monoethylene Glycol (MEG)	**ASTM E202-18** Standard Test Methods for Analysis of Ethylene Glycols and Propylene Glycols
		Water in Monoethylene Glycol (MEG)	**ASTM E1064-24** Standard Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration
		UV Transmittance in Monoethylene Glycol (MEG)	**ASTM E2193-23** Standard Test Method for Ultraviolet Transmittance of Monoethylene Glycol (using Ultraviolet Spectrophotometry)
		Aldehydes as Acetaldehyde in Monoethylene Glycol (MEG)	**ASTM E2313-22** Standard Test Method for Aldehydes in Mono-, Di-, and Triethylene Glycol (using Spectrophotometry)
		Glycol impurities in Monoethylene Glycol (MEG)	**ASTM E2409-20a** Glycol Impurities in Mono-, Di- ,Tri- and Tetraethylene Glycol

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Petroleum – Chemistry continued	Petroleum and Petroleum Products continued		and in Mono- and Dipropylene Glycol (Gas Chromatographic Method)
		Appearance of Monoethylene Glycol (MEG)	**ASTM E2680-23** Standard Test Method for Appearance of Clear, Transparent Liquids (Visual Inspection Procedure)

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