



CERTIFICATE OF ACCREDITATION

This is to attest that

LONESTAR TECHNICAL SERVICES LLC
BUILDING #DY34, INSIDE DUBAI SHIP DOCKING YARD, AL JADAF
DUBAI, 8817, UNITED ARAB EMIRATES

Testing Laboratory TL-1098

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 October 10, 2022



A handwritten signature in black ink, reading 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

LONESTAR TECHNICAL SERVICES LLC

Contact Name Maximo Catapangan Jr.

Contact Phone +971-43243888

Accredited to ISO/IEC 17025:2017

Effective Date October 10, 2022

ASTM D86-20b	Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure
ASTM D92-18	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D93-20	Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
ASTM D95-13 (Reapproved 2018)	Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D97-17b	Standard Test Method for Pour Point of Petroleum Products
ASTM D130-19	Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test
ASTM D445-21e1	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)
ASTM D473-2022	Standard Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction Method
ASTM D482-19	Standard Test Method for Ash from Petroleum Products
ASTM D971-20	Standard Test Method for Interfacial Tension of Insulating Liquids Against Water by the Ring Method
ASTM D974-21	Standard Test Method for Acid and Base Number by Color-Indicator Titration
ASTM D976-21	Standard Test Method for Calculated Cetane Index of Distillate Fuels
ASTM D1298-12B (Reapproved 2017)	Standard Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D1500-12 (Reapproved 2017)	Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale)
ASTM D2709-16	Standard Test Method for Water and Sediment in Middle Distillate Fuels by Centrifuge
ASTM D2896-21	Standard Test Method for Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration
ASTM D4294-21	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry

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ASTM D4530-15 (Reapproved 2020)	Standard Test Method for Determination of Carbon Residue (Micro Method)
ASTM D4868-17	Standard Test Method for Estimation of Net and Gross Heat of Combustion of Hydrocarbon Burner and Diesel Fuels
ASTM D5185-18	Standard Test Method for Multielement Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)
IEC 60156 Ed. 3.0 - 2018-08	Insulating liquids - Determination of the breakdown voltage at power frequency - Test method
ISO 4406-2021	Hydraulic fluid power - Fluids - Method for coding the level of contamination by solid particles