



CERTIFICATE OF ACCREDITATION

This is to attest that

SGS CHILE SOCIEDAD DE CONTROL LTDA.

AVENIDA TRES PONIENTE # 800
MAIPU, 9250000, CHILE

Testing Laboratory TL-871

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.

Expiry Date November 1, 2024
Effective Date January 30, 2024



A handwritten signature in black ink that reads 'Raj Nathan'.

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

SGS CHILE SOCIEDAD DE CONTROL LTDA.

Contact Name Soledad Rodriguez

Contact Phone +56-966894105

Accredited to ISO/IEC 17025:2017

Effective Date January 30, 2024

| Petroleum Products: Chemistry for Fuels and Lubricant Oils | |
|---|--|
| ASTM D56 | Standard Test Method for Flash Point by Tag Closed Cup Tester |
| ASTM D86 | Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure |
| ASTM D93 | Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester |
| ASTM D95 | Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation |
| ASTM D97 | Standard Test Method for Pour Point of Petroleum Products |
| ASTM D130 | Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test |
| ASTM D381 | Standard Test Method for Gum Content in Fuels by Jet Evaporation |
| ASTM D445 | Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity) |
| ASTM D473 | Standard Test Method for Sediment in Crude Oils and Fuel Oils by the Extraction Method |
| ASTM D482 | Standard Test Method for Ash from Petroleum Products |
| ASTM D976 | Standard Test Method for Calculated Cetane Index of Distillate Fuels |
| ASTM D1267 | Standard Test Method for Gauge Vapor Pressure of Liquefied Petroleum (LP) Gases (LP-Gas Method) |
| ASTM D1298 | Standard Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method |
| ASTM D1322 | Standard Test Method for Smoke Point of Kerosene and Aviation Turbine Fuel |
| ASTM D1657 | Standard Test Method for Density or Relative Density of Light Hydrocarbons by Pressure Hydrometer |
| ASTM D1838 | Standard Test Method for Copper Strip Corrosion by Liquefied Petroleum (LP) Gases |
| ASTM D2158 | Standard Test Method for Residues in Liquefied Petroleum (LP) Gases |

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

| | |
|------------|---|
| ASTM D2163 | Standard Test method for Determination of Hydrocarbons in Liquefied Petroleum (LP) Gases and Propane/Propene Mixtures by Gas Chromatography |
| ASTM D2500 | Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels |
| ASTM D2598 | Standard Practice for Calculation of certain Physical Properties of Liquefied Petroleum (LP) Gases from Compositional Analysis 5.1 Calculated LP-Gas Vapor Pressure |
| ASTM D2598 | Standard Practice for Calculation of certain Physical Properties of Liquefied Petroleum (LP) Gases from Compositional Analysis 5.2 Calculated Relative Density |
| ASTM D2598 | Standard Practice for Calculation of certain Physical Properties of Liquefied Petroleum (LP) Gases from Compositional Analysis 5.3 Calculated Motor Octane Number |
| ASTM D2699 | Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel |
| ASTM D2709 | Standard Test Method for Water and Sediment in Middle Distillate Fuels by Centrifuge |
| ASTM D2713 | Standard Test Method for Dryness of Propane (Valve Freeze Method) |
| ASTM D3588 | Standard Practice for Calculating Heat Value Compressibility Factor, and Relative Density of Gaseous Fuels. |
| ASTM D4176 | Standard Test Method for Free Water and Particulate Contamination in Distillate Fuels (Visual Inspection Procedures) |
| ASTM D4530 | Standard Test Method for Determination of Carbon Residue (Micro Method) |
| ASTM D4052 | Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter |
| ASTM D4815 | Standard Test Method for Determination of MTBE, ETBE, TAME, DIPE, tertiary-Amyl Alcohol and C1 to C4 Alcohols in Gasoline by Gas Chromatography |
| ASTM D5186 | Standard Test Method for Determination of the Aromatic Content and Polynuclear Aromatic Content of Diesel Fuels By Supercritical Fluid Chromatography |
| ASTM D5191 | Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method) |
| ASTM D5453 | Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence |
| ASTM D6371 | Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels |
| ASTM D6595 | Standard Test Method for Determination of Wear Metals and Contaminants in Used Lubricating Oils or Used Hydraulic Fluids by Rotating Disc Electrode Atomic Emission Spectrometry Metales - Zinc, Calcium, Aluminium, Silicon, |

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

| | |
|------------|---|
| | Lead, Potassium, Boron, Sodium, Molybdenum, Magnesium, Barium, Titanium, Silver, Iron, Copper, Vanadium, Tin, and Chromium. |
| ASTM D6667 | Standard Test method for Determination of Total Volatile Sulfur in Gaseous Hydrocarbons and Liquefied Petroleum Gases by Ultraviolet Fluorescence |
| ASTM D7596 | Standard Test Method for Automatic Particle Counting and Particle Shape Classification of Oils Using a Direct Imaging Integrated Tester |
| ASTM E203 | Standard Test Method for Water Using Volumetric Karl Fischer Titration |
| NCh 74 | Gases Licuado de Petróleo – Determinación de Volatilidad |
| NCh 2394 | Gases licuados de petróleo y gas natural- ensayo de olor |