



CERTIFICATE OF ACCREDITATION

This is to attest that

SGS CHILE

AVDA. 3 PONIENTE 800
SANTIAGO 9273959, CHILE

Inspection Agency AA-816 (Type A)

has met the requirements of AC98, *IAS Accreditation Criteria for Inspection Agencies*, and has demonstrated compliance with ISO/IEC Standard 17020:2012, *Conformity assessment - Requirements for the operation of various types of bodies performing inspection*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date November 1, 2025

Effective Date January 22, 2024



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

SGS CHILE

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Contact Name Soledad Rodriguez

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Accredited to ISO/IEC 17020:2012

Effective Date January 22, 2024

| Field and Range of Inspection | Regulations, Inspection Methods, Standards and/or Specifications |
|--|--|
| Petroleum and Petroleum Products/Bulk Liquid and Corrosive Chemicals | |
| Determination of API Gravity and Density of samples in the field or in laboratory. Standard Practice for the Manual Gauging of Petroleum and Petroleum Products. Gauging in ships and terminals. Discharge of Crude Oil in Terminals and ship to ship. | API MPMS, Chapter 3.1A Instructive OGC-L3-SAM(CL)-INS-02I Instructive OGC-L3-SAM(CL)-INS-18I |
| Temperature Determination - Liquid-in-Glass Thermometers. Temperature Determination - Portable Electronic Thermometers. Manual Gauging of Petroleum and Petroleum Products in vessel and terminals. Discharge of Crude Oil in Terminals and ship to ship. | API MPMS, Chapter 7.1 API MPMS, Chapter 7.2 OGC-L3-SAM(CL)-INS-02I OGC-L3-SAM(CL)-INS-18I |
| Calculation of quantities of products stored/transferred in static or mobile tanks. Use of Volume Correction Factors. Density, weight and volume intra-conversion. | API MPMS, Chapter 12.1.1 API MPMS, Chapter 11.1 API MPMS, Chapter 11.5 ASTM D1250 OGC-L3-SAM(CL)-INS-02I OGC-L3-SAM(CL)-INS-18I |
| Standard Practice for Manual Sampling of Petroleum and Petroleum Products. Manual Gauging of Petroleum and Petroleum Products in vessel and terminals. Sampling of Bulk products at Terminals and Plants. Discharge of Crude Oil in Terminals and ship to ship. | API MPMS, Chapter 8.1 ASTM D4057 NCh 60 OGC-L3-SAM(CL)-INS-02I OGC-L3-SAM(CL)-INS-05I OGC-L3-SAM(CL)-INS-18I |
| Fuel-Manual procedure for obtaining samples – Part1: Gas Pump Method | NCh60/1-Of2001 |

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| Field and Range of Inspection | Regulations, Inspection Methods, Standards and/or Specifications |
|--|---|
| <p>Standard Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method. Manual Gauging of Petroleum and Petroleum Products in vessel and terminals. Discharge of Crude Oil in Terminals and ship to ship.</p> | <p>API MPMS, Chapter 9.1 ASTM D1298 OGC-L3-SAM(CL)-INS-02I OGC-L3-SAM(CL)-INS-18I</p> |
| <p>Standard Practice for the Manual Gauging of Petroleum and Petroleum Products. Marine Measurement Section 2 - Measurement of Cargoes On Board Tank Vessels. Petroleum and liquid petroleum products - Equipment for measurement of liquid levels in storage tanks - Manual methods. Inspection for chemical and petrochemical products.</p> | <p>API MPMS, Chapter 3.1A API MPMS, Chapter 17.2 ISO 4512 OGC-L3-SAM(CL)-INS-20I</p> |
| <p>Temperature Determination - Liquid-in-Glass Thermometers. Temperature Determination - Portable Electronic Thermometers. Inspection for chemical and petrochemical products.</p> | <p>API MPMS, Chapter 7.1 API MPMS, Chapter 7.2 OGC-L3-SAM(CL)-INS-20I</p> |
| <p>Marine Measurement Section 2 - Measurement of Cargoes On Board Tank Vessels. Physical Properties Data - Temperature and Pressure Volume Correction Factors for Generalized Crude Oils, Refined Products, and Lubricating Oils. Physical Properties Data - Density/Weight/Volume Intraconversion. Sulfuric Acid Discharge in Ports. Inspection for chemical and petrochemical products. Discharge of Soda and Caustic Potash in Ports.</p> | <p>API MPMS, Chapter 17.2 API MPMS, Chapter 11.1 API MPMS Chapter 11.5 OGC-L3-SAM(CL)-INS-13I OGC-L3-SAM(CL)-INS-20I OGC-L3-SAM(CL)-INS-21I</p> |
| <p>Standard Practice for Manual Sampling of Petroleum and Petroleum Products. Standard Practice for Sampling Industrial Chemicals. Sodium hydroxide for industrial use - Sampling – Test sample - Preparation of the main solution for carrying out certain determinations. Sampling of Bulk products at Terminals and Plants. Inspection for chemical and petrochemical products. Caustic Soda for industrial use - Specifications. Sulfuric Acid - Extraction of samples</p> | <p>API MPMS, Chapter 8.1 ASTM E300 OGC-L3-SAM(CL)-INS-05I OGC-L3-SAM(CL)-INS-20I NCh 864</p> |
| <p>Standard Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method.</p> | <p>API MPMS, Chapter 9.1 ASTM D1298</p> |
| <p>Measurement of cargoes On Board Marine Gas</p> | <p>API MPMS 17.10.2</p> |

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| Field and Range of Inspection | Regulations, Inspection Methods, Standards and/or Specifications |
|---|--|
| Carriers, Part 2—Liquefied Petroleum and Chemical Gases | OGC-L3-SAM(CL)-INS-16I |
| Natural gas fluids measurement (GNL) | API MPMS14.8 OGC-L3-SAM(CL)-INS-45I Annex 3, Appendix XV, Chapter 3, Compendium of Customs Regulations (CNA). Treasury Decree No. 32 / 18.01.2018, of the Ministry of Treasury |

Note: The scope of accreditation pertains only to inspection activity.