SCOPE OF ACCREDITATION ISO/IEC 17025:2017

GTI ENERGY
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CHEMICAL

Valid To: January 31, 2026 Certificate Number: 2139.04

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests and failure analyses on solids, automotive components, fasteners and metals, pipeline coatings, plastics and polymers, pressure vessels, rubber, tools, liquids, coal, coke, and gases:

Test Description	Test Method(s)
Differential Scanning Calorimetry (DSC)	ASTM D3418, D3895
Gas Chromatography (GC) of Natural/Fuel Gas	ASTM D1945, D1946, D3588; GPA-2286
Analysis of Sulfur Compounds in Gases by Gas Chromatography (GC)	ASTM D6228
Obtaining Infrared Spectra for Qualitative Analysis (FTIR)	ASTM E1252; WI-137[1]
Sulfur in the Analysis Sample of Coal and Coke-Combustion Methods (LECO)	ASTM D4239
Total Sulfur in Coal and Coke Combustion Residues -Combustion Method (LECO)	ASTM D5016
Determination of Carbon, Hydrogen, and Nitrogen in Laboratory Samples of Coal and Coke (LECO)	ASTM D5373
Calorimetry	ASTM D5865
Proximate Analysis of Coal and Coke by Macro Thermogravimetric Analysis (LECO TGA)	ASTM D7582
Standard Test Method for Determining Loose and Tapped Bulk Densities	ASTM D7481
Determination of Total Oxygen in Gasoline and Methanol Fuels by Reductive Pyrolysis	ASTM D5622 (Method A)

Test Description	Test Method(s)
Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Petroleum Products and Lubricants	ASTM D5291 (Method C)
qPCR to Detect Microbes Associated with Microbial Influenced Corrosion (MIC)	NACE 0106 (Section 6.6), NACE 0212 (Section 7.8)

[1]In-house Method

Accredited Laboratory

A2LA has accredited

GTI ENERGY

Des Plaines, IL

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 23rd day of January 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2139.04
Valid to January 31, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.