



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GTI TESTING LABORATORIES
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CHEMICAL

Valid To: January 31, 2020

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:

<u>Test Description</u>	<u>Test Method(s)</u>
Differential Scanning Calorimetry (DSC)	ASTM D3417 ¹ (Withdrawn 2004), D3418, D3895
SEM/EDS	ASTM E1508; WI-63*
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
Sulfur in Petroleum Gas by Oxidative Microcoulometry	ASTM D3246
Obtaining Infrared Spectra for Qualitative Analysis (FTIR)	ASTM E1252; WI-137*
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

<u>Test Description</u>	<u>Test Method(s)</u>
Density and Specific Gravity (Relative Density) by Water Displacement	ASTM D792 (Method A)
Standard Test Method for Determining Loose and Tapped Bulk Densities	ASTM D7481
Ash Content in Plastics	ASTM D5630 (Method B)
Determination of Total Oxygen in Gasoline and Methanol Fuels by Reductive Pyrolysis	ASTM D5622 (Method C)
Standard Test Method for Determination of Water in Petroleum	ASTM D6304
Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Petroleum Products and Lubricants	ASTM D5291 (Method B)
Total Acid Number (TAN) of Petroleum Products by Potentiometric Titration	ASTM D664
qPCR to Detect Microbes Associated with Microbial Influenced Corrosion (MIC)	NACE 0106 (Section 6.6), NACE 0212 (Section 7.8)

¹This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

*In-house Method





Accredited Laboratory

A2LA has accredited

GTI TESTING LABORATORIES

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 17025:2005 *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 5th day of January 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2139.04
Valid to January 31, 2020

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