



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Gage Products Company**  
**731 Wanda Avenue**  
**Ferndale, MI 48220**

Fulfills the requirements of

**ISO/IEC 17025:2017**

In the field of

**TESTING**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 09 April 2023

Certificate Number: AT-2968



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
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).

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### Gage Products Company

731 Wanda Avenue  
Ferndale, MI 48220  
Bob Patzelt 248-591-0231

### TESTING

Valid to: **April 9, 2023**

Certificate Number: **AT-2968**

#### Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Electrical Conductivity (1,000 to 20,000,000 uS/m)	ASTM D1125	Fuels and Fuel Components	Conductivity Meter
Corrosiveness to Copper	ASTM D130	Fuels and Fuel Components	Copper Corrosion Bath
Hydrocarbon Types by FIA	ASTM D1319	Fuels and Fuel Components	FIA Apparatus
Acidity as Acetic Acid	ASTM D1613	Fuels and Fuel Components	Manual Titrator
Heat of Combustion of Liquid Fuels	ASTM D240mod	Fuels and Fuel Components	Calorimeter
Electrical Conductivity	ASTM D2624	Fuels and Fuel Components	Conductivity Meter
Acidity in Aviation Turbine Fuel	ASTM 3242	Fuels and Fuel Components	Manual Titrator
Estimated Heat of Combustion of Aviation Fuels	ASTM D3338/3338M	Fuels and Fuel Components	Calculator
Estimated Hydrogen Content of Aviation Fuels	ASTM D3343	Fuels and Fuel Components	Calculator
Gum Content of Fuels	ASTM D381	Fuels and Fuel Components	Gum Testing Apparatus
Density and Relative Density of Liquid Fuels	ASTM D4052	Fuels and Fuel Components	Density Meter
Driveability Index	ASTM D4814	Fuels and Fuel Components	Calculator
Determination of Oxygenates and Alcohols in Gasoline by Gas Chromatography	ASTM D4815	Fuels and Fuel Components	Gas Chromatograph



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**Chemical**

<b>Specific Tests and/or Properties Measured</b>	<b>Specification, Standard, Method, or Test Technique</b>	<b>Items, Materials or Product Tested</b>	<b>Key Equipment or Technology</b>
Determination of Oxygenates and Alcohols in Gasoline by GC	ASTM D4815mod	Fuels and Fuel Components	Gas Chromatograph
Vapor-Liquid Ratio of Fuels	ASTM D5188	Fuels and Fuel Components	V/L Tester
Carbon and Hydrogen Content in Petroleum Products	ASTM D5291	Fuels and Fuel Components	Elemental Analyzer
Sulfur Content in Petroleum Products	ASTM D5453	Fuels and Fuel Components	Sulfur Analyzer
Benzene, Toluene, Ethylbenzene, p/m-Xylene, o-Xylene, C9 and Heavier Aromatics, and Total Aromatics in Gasoline	ASTM D5580	Fuels and Fuel Components	Gas Chromatograph
Benzene, Toluene, and Total Aromatics in Gasoline	ASTM D5769	Fuels and Fuel Components	Gas Chromatograph/Mass Spectroscopy
pHe of Fuel Ethanol and Blends	ASTM D6423	Fuels and Fuel Components	pH Meter
Detailed Hydrocarbon Analysis	ASTM D6730mod	Fuels and Fuel Components	Gas Chromatograph
Dynamic Viscosity by Stabinger Viscometer	ASTM D7042	Fuels and Fuel Components	Viscometer
Sulfate and Chloride Content of Fuel Ethanol	ASTM D7328	Fuels and Fuel Components	Ion Chromatograph
Acidity in Ethanol and Blends	ASTM D7795	Fuels and Fuel Components	Automatic Titrator
Distillation of Petroleum Products	ASTM D86	Fuels and Fuel Components	Automatic Distillation Tester
Acid and Base Number of Petroleum Products	ASTM D974	Fuels and Fuel Components	Manual Titrator
Calculated Cetane Index of Diesel	ASTM D976	Fuels and Fuel Components	Calculator
Water in Liquid Petroleum Products	ASTM E1064	Fuels and Fuel Components	Automatic Titrator
Water in Liquid Petroleum Products	ASTM E203	Fuels and Fuel Components	Automatic Titrator



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**Mechanical**

<b>Specific Tests and/or Properties Measured</b>	<b>Specification, Standard, Method, or Test Technique</b>	<b>Items, Materials or Product Tested</b>	<b>Key Equipment or Technology</b>
Research Octane Number of Gasoline	ASTM D2699	Fuels and Fuel Components	Octane Motor
Motor Octane Number of Gasoline	ASTM D2700	Fuels and Fuel Components	Octane Motor
Vapor Pressure of Petroleum Products	ASTM D5191	Fuels and Fuel Components	Automatic RVP Tester
Vapor Pressure of Petroleum Products	ASTM D6378	Fuels and Fuel Components	Automatic RVP Tester
Flashpoint by Closed Cup Tester	ASTM D6450	Fuels and Fuel Components	Automatic Flashpoint Tester
Flashpoint by Pensky-Martens Closed Cup	ASTM D7094	Fuels and Fuel Components	Automatic Flashpoint Tester
Flashpoint by Pensky-Martens Closed Cup	ASTM D93	Fuels and Fuel Components	Automatic Flashpoint Tester

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2968.

R. Douglas Leonard Jr., VP, PILR SBU