



# CERTIFICATE OF ACCREDITATION

## ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**Morgan Schaffer, Inc.**  
**8300 Saint-Patrick Street, Suite 150**  
**LaSalle, QC H8N 1H1**

has been assessed by ANAB  
and meets the requirements of international standard

## ISO/IEC 17025:2005

while demonstrating technical competence in the field of

## TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-2125  
Certificate Number

  
ANAB Approval

Certificate Valid: 03/08/2017-03/08/2019  
Version No. 001 Issued: 03/08/2017



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009).



# ANSI-ASQ National Accreditation Board

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

### Morgan Schaffer, Inc.

8300 Saint-Patrick Street, Suite 150  
LaSalle, QC H8N 1H1

Contact: Denis Lafrance Phone: 514-739-1967

Email: dlafrance@morganschaffer.com Website: www.morganschaffer.com

### TESTING

Valid to: March 8, 2019

Certificate Number: AT-2125

#### I. Chemical-

Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Dielectric Fluid	Corrosive Sulfur	ASTM D1275	Oven, Cu strip, Tarnish Chart
Dielectric Fluid	Specific Gravity	ASTM D1298	Hydrometer
Dielectric Fluid	Color of petroleum products	ASTM D1500	ASTM Color Scale
Dielectric Fluid	Visual examination	ASTM D1524	Visual Examination
Dielectric Fluid	Moisture by Karl-Fisher titration	ASTM D1533	Karl Fisher Titrator
Dielectric Fluid	Dielectric Breakdown	ASTM D1816	VDE Electrode
Dielectric Fluid	Dissolved Gas Analysis	ASTM D3612	Gas Chromatograph (GC)
Dielectric Fluid	PCB in oil	ASTM D4059	Gas Chromatograph (GC)



Items, Materials or Products Tested	Specific Tests or Properties Measured	Specification, Standard Method, or Technique Used	Key Equipment or Technology*
Dielectric Fluid	Inhibitors content: 2,6-Ditertiary-Butyl Para-Cresol and 2,6-Ditertiary-Butyl Phenol in Insulating Liquids	ASTM D4768	Gas Chromatograph (GC)
Dielectric Fluid	Furanic compounds	ASTM D5837	High Performance Liquid Chromatograph (HPLC)
Dielectric Fluid	Dielectric Breakdown Voltage	ASTM D877	Disk Electrodes
Dielectric Fluid	Power Factor	ASTM D924	Power Factor Device
Dielectric Fluid	Interfacial Tension	ASTM D971	Tensiometer
Dielectric Fluid	Total Acid number	ASTM D974	Acid-Base Titration
Dielectric Fluid	Moisture in oil content	WI 017-00	Water Sensor

**Notes:**

1. \* = as applicable.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2125.

  
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 Vice President



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**Morgan Schaffer Inc.**  
**8300 Saint-Patrick Street, Suite 15**  
**LaSalle, QC H8N 2H1**

has been assessed by ANAB  
and meets the requirements of international standard

## ISO Guide 34:2009

while demonstrating technical competence in the field of

## Reference Material Producer

Refer to the accompanying Scope of Accreditation for information regarding the types of materials to which this accreditation applies.

AR-2126

Certificate Number

  
ANAB Approval

Certificate Valid 03/08/2017-03/08/2019  
Version No. 001 Issued: 03/08/2017





**ANSI-ASQ National Accreditation Board**

**SCOPE OF ACCREDITATION TO ISO GUIDE 34:2009**

**Morgan Schaffer, Inc.**

8300 Saint-Patrick Street, Suite 150

LaSalle, QC H8N 1H1

Contact: Denis Lafrance Phone: 514-739-1967

Email: dlafrance@morganschaffer.com Website: www.morganschaffer.com

**REFERENCE MATERIAL PRODUCER**

Valid to: March 8, 2019

Certificate Number: AR-2126

Category and Sub-Category of Reference Material	ILAC RM Category	Class or Type of Reference Materials Produced (Include Range Where Applicable)	Methods or Techniques Used in the RMP Laboratory (if Appropriate)
Gases (Certified Reference Material)	A7.1	Gas mixture in dielectric fluids (5, 10, 50, 100, 500 and 1000 ppm (µg/g) of H <sub>2</sub> , CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>2</sub> H <sub>4</sub> , C <sub>2</sub> H <sub>2</sub> , CO <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> , and CO)	Gas Chromatography
Moisture (Certified Reference Material)	A3.5	Moisture in dielectric fluids. 15 and 30 ppm (µg/g)	Karl Fisher Titrator

**Notes:**

1. Please contact the RMP organization for more information on CRM uncertainty values, Ucrm values, and other specific lot values. Some of this information may also be available on the RMP's website.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AR- 2126



Vice President

