



# CALA

Canadian Association for  
Laboratory Accreditation Inc.

## CALA Directory of Laboratories

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**Membership Number:** 3822  
**Laboratory Name:** Fluid Life Ltd. - Bloomington Laboratory  
**Parent Institution:** The Fluid Life Corporation  
**Address:** Suite 210, 9555 James Ave. S Bloomington, MN 55431  
**Contact:** Mr. Craig Winterfield  
**Phone:** (877) 962-2400  
**Fax:** (952) 888-7790  
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**Standard:** Conforms with requirements of ISO/IEC 17025  
**Clients Served:**  
**Revised On:** March 17, 2017  
**Valid To:** January 12, 2018

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### Scope of Accreditation

#### Oil (Inorganic)

Acid Number - Oil (005)  
LAB-008; modified from ASTM D664  
AUTO TITRIMETRIC  
Acid Number

#### Oil (Inorganic)

Base Number - Oil (006)  
LAB-044; modified from ASTM D4739  
AUTO TITRIMETRIC  
Base Number

#### Oil (Inorganic)

Glycols - Oil (011)  
LAB-017; modified from ASTM D7922  
GC/FID  
Ethylene Glycol  
Propylene Glycol

#### Oil (Inorganic)

Kinematic Viscosity (Auto) - Oil (003)  
LAB-011, LAB-012; IN-HOUSE  
AUTO-VISCOMETER  
Viscosity at 100 degrees C  
Viscosity at 40 degrees C

† "OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at [http://www.cala.ca/cala\\_directories.html](http://www.cala.ca/cala_directories.html)

**Oil (Inorganic)**

Kinematic Viscosity (Manual Bath) - Oil (002)

LAB-027; modified from ASTM D445

MANUAL BATH

Viscosity at 100 degrees C

Viscosity at 40 degrees C

**Oil (Inorganic)**

Metals - Oil (008)

LAB-029; modified from ASTM D5185

ICP/AES

Aluminum

Antimony

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Molybdenum

Nickel

Phosphorus

Potassium

Silicon

Silver

Sodium

Tin

Titanium

Vanadium

Zinc

**Oil (Inorganic)**

Nitration, Oxidation, Sulphation and Soot - Oil (001)

LAB-030; modified from ASTM E2412

FTIR

Nitration

Oxidation

Soot (%) Loading

Sulphation

**Oil (Inorganic)**

Optical Particle Count - Oil (012)

LAB-015; IN-HOUSE and ISO 4406 for Reporting

SPECTRO PARTICLE COUNTER

Particle Count at 4, 6, 14 microns

**Oil (Inorganic)**

Particle Count - Oil (009)

LAB-001; modified from ISO 11500 PROCEDURE and ISO 4406 COUNTING

HIAC PARTICLE COUNTER

Particle Count 4, 6 and 14 microns

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**Oil (Inorganic)**

Water Content - Oil (004)

LAB-018; modified from ASTM D6304

KARL FISCHER AUTO TITRIMETRIC

Water Content

**Oil (Inorganic)**

Water Content - Oil (007)

LAB-009; IN-HOUSE and "THE VISUAL CRACKLE" PRACTICING OIL ANALYSIS MAGAZINE SEPT 1998

CRACKLE USING HOT PLATE

Crackle

**Oil (Organic)**

Fuels - Oil (010)

LAB-017; modified from ASTM D7593

GC/FID

Fuels

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