



CALA Scope of Accreditation

Laboratory Name: Fluid Life Corporation - Edmonton Laboratory

Client ID: 1003701

Parent Institution: The Fluid Life Corporation

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Standard: Conforms with requirements of ISO/IEC 17025:2017

Clients Served:

Revised On: 06/30/2021

Valid To: 12/30/2023

001 - Nitration and Oxidation and Sulphation and Soot

Field of Accreditation: Environmental

Matrix: Oil

Analytical Method: FTIR

Preparation Method:

Lab Method ID(s): LAB-053

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM E2412	Yes	Yes	No

Parameter

Nitration
Oxidation
Soot (%) Loading
Sulphation

002 - Kinematic Viscosity

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: VISCOMETER

Preparation Method:

Lab Method ID(s): LAB-027

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D445	Yes	Yes	No

Parameter

Viscosity at 100 degrees C
Viscosity at 40 degrees C

003 - Kinematic Viscosity

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: VISCOMETER

Preparation Method:

Lab Method ID(s): LAB-011, LAB-012

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D445	Yes	Yes	No

Parameter

Viscosity at 100 degrees C
Viscosity at 40 degrees C

004 - Water Content

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: KARL FISCHER TITRATION

Preparation Method:

Lab Method ID(s): LAB-018

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D6304	Yes	Yes	No

Parameter

Water Content

005 - Acid Number

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: AUTOMATED TITRIMETRIC

Preparation Method:

Lab Method ID(s): LAB-008

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D664	Yes	Yes	No

Parameter

Total Acid Number

006 - Base Number

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: AUTOMATED TITRIMETRIC

Preparation Method:

Lab Method ID(s): LAB-044

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D4739	Yes	Yes	No

Parameter

Total Base Number

007 - Water Content

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: CRACKLE

Preparation Method:

Lab Method ID(s): LAB-009

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	No	Yes	No
PRACTICING OIL ANALYSIS "THE VISUAL CRACKLE" SEPT 1998	No	Yes	No

Parameter

Crackle

008 - Metals

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: ICP

Preparation Method:

Lab Method ID(s): LAB-029

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D5185	Yes	Yes	No

Parameter

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

009 - Particle Count

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: PARTICLE COUNTER

Preparation Method:

Lab Method ID(s): LAB-051

Method Reference	Modified From	Analytical Method	Preparation Method
ISO 11500	Yes	Yes	No
ISO 4406	Yes	Yes	No

Parameter

Particle Count (4, 6, 14um)

010 - Fuels

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: GC/FID

Preparation Method:

Lab Method ID(s): LAB-017

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D7593	Yes	Yes	No

Parameter

Fuel

011 - Glycols

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: GC/FID

Preparation Method:

Lab Method ID(s): LAB-017

Method Reference	Modified From	Analytical Method	Preparation Method
ASTM D7922	Yes	Yes	No

Parameter

Ethylene glycol

Propylene glycol

012 - Optical Particle Count

Field of Accreditation: Petroleum

Matrix: Oil

Analytical Method: PARTICLE COUNTER

Preparation Method:

Lab Method ID(s): LAB-015

Method Reference	Modified From	Analytical Method	Preparation Method
IN-HOUSE	Yes	Yes	No
ISO 4406	Yes	Yes	No

Parameter

Particle Count

† "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