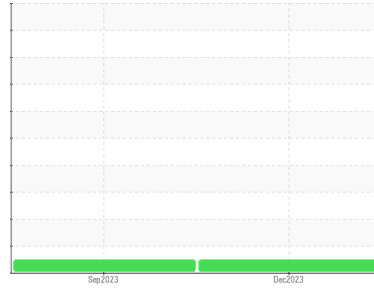




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[6573]**  
 Machine Id  
**63R**

Component  
**Diesel Engine**  
 Fluid

**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0846154</b>	WC0790228	---
Sample Date	Client Info		<b>11 Dec 2023</b>	19 Sep 2023	---
Machine Age	kms	Client Info	<b>83117</b>	74246	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >65	<b>6</b>	12	---
Chromium	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m) >5	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185(m) >35	<b>2</b>	4	---
Lead	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m) >180	<b>6</b>	22	---
Tin	ppm	ASTM D5185(m) >8	<b>0</b>	2	---
Antimony	ppm	ASTM D5185(m) >35	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	<b>90</b>	25	---
Barium	ppm	ASTM D5185(m) 10	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 100	<b>11</b>	11	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m) 450	<b>683</b>	769	---
Calcium	ppm	ASTM D5185(m) 3000	<b>1425</b>	1298	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>722</b>	761	---
Zinc	ppm	ASTM D5185(m) 1350	<b>812</b>	845	---
Sulfur	ppm	ASTM D5185(m) 4250	<b>2537</b>	2412	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

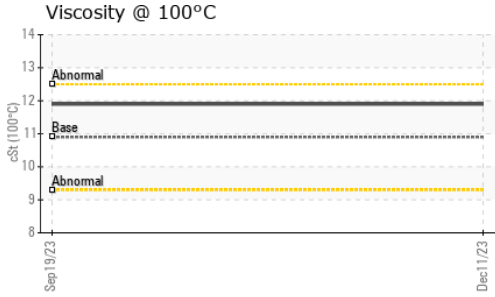
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>4</b>	5	---
Sodium	ppm	ASTM D5185(m)	<b>3</b>	3	---
Potassium	ppm	ASTM D5185(m) >20	<b>4</b>	0	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	0.1	---
Nitration	Abs/cm	ASTM D7624* >20	<b>8.3</b>	9.3	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>18.8</b>	21.9	---

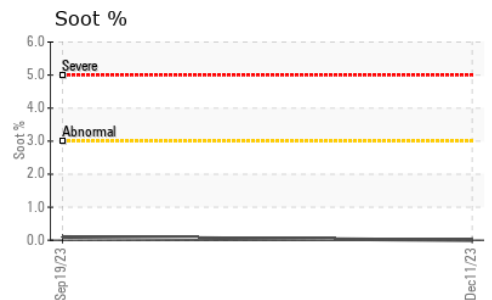
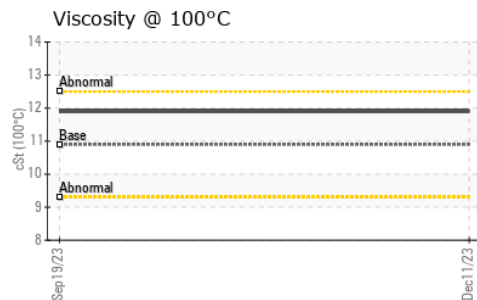
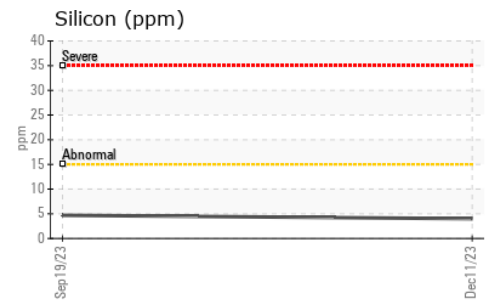
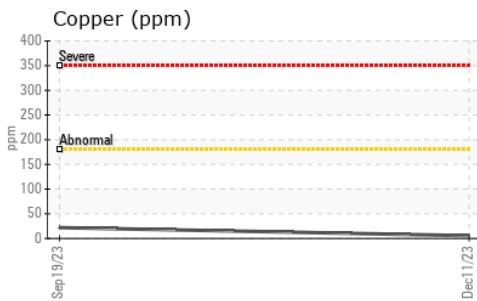
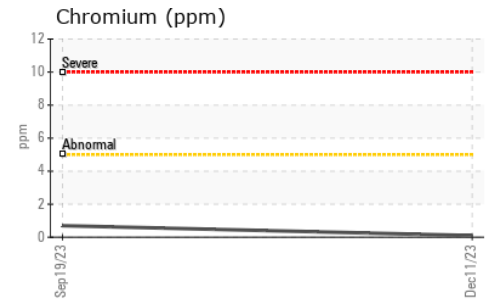
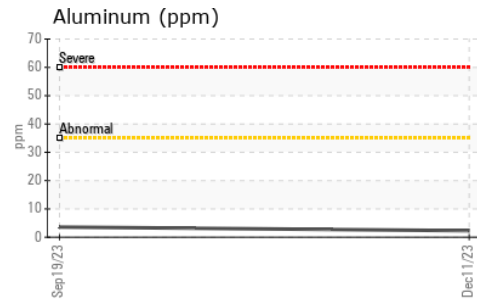
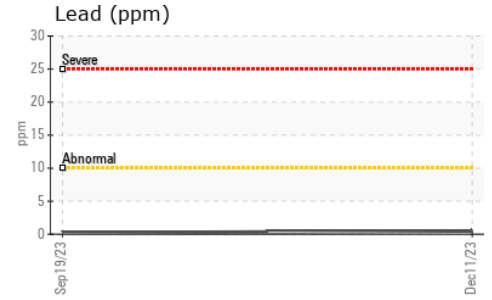
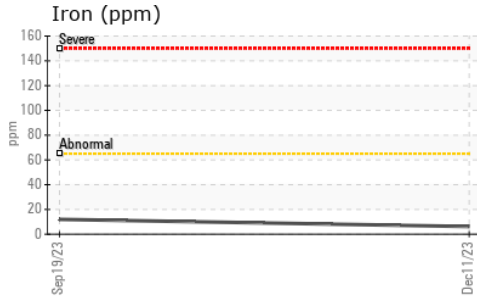


# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.4</b>	18.2	---
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>11.9</b>	11.9	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0846154      **Received** : 19 Dec 2023  
**Lab Number** : **02603989**      **Diagnosed** : 19 Dec 2023  
**Unique Number** : 5697074      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**CANADA CLEAN FUELS**  
 4425 CHESSWOOD DR  
 TORONTO, ON  
 CA M3J 2C2  
 Contact: Rory Grant  
 rgrant@canadacleanfuels.com  
 T: (647)882-6850  
 F: (416)521-9368

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.