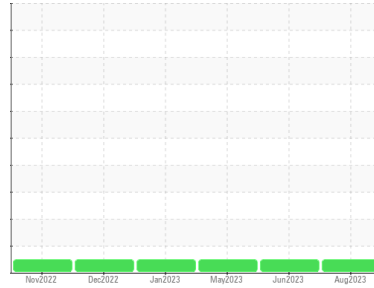




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2109**

Component  
**Natural Gas Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>WC0830188</b>	WC0811401	WC0811333
Sample Date	Client Info	<b>02 Aug 2023</b>	19 Jun 2023	03 May 2023
Machine Age	kms Client Info	<b>44251</b>	35101	0
Oil Age	kms Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	<b>8</b>	8	15
Chromium	ppm ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185(m) >2	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Silver	ppm ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >9	<b>1</b>	1	2
Lead	ppm ASTM D5185(m) >30	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185(m) >35	<b>1</b>	2	3
Tin	ppm ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 250	<b>11</b>	10	22
Barium	ppm ASTM D5185(m) 10	<b>0</b>	<1	9
Molybdenum	ppm ASTM D5185(m) 100	<b>52</b>	49	49
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	2
Magnesium	ppm ASTM D5185(m) 450	<b>785</b>	767	799
Calcium	ppm ASTM D5185(m) 3000	<b>1191</b>	1176	1236
Phosphorus	ppm ASTM D5185(m) 1150	<b>676</b>	638	753
Zinc	ppm ASTM D5185(m) 1350	<b>862</b>	836	820
Sulfur	ppm ASTM D5185(m) 4250	<b>1952</b>	1841	1965
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >+100	<b>7</b>	10	24
Sodium	ppm ASTM D5185(m) >158	<b>2</b>	3	7
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	<1

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm ASTM D7624*	<b>&gt;20</b>	12.0	10.2
Sulfation	Abs/.1mm ASTM D7415*	<b>&gt;30</b>	21.5	20.1

## FLUID DEGRADATION

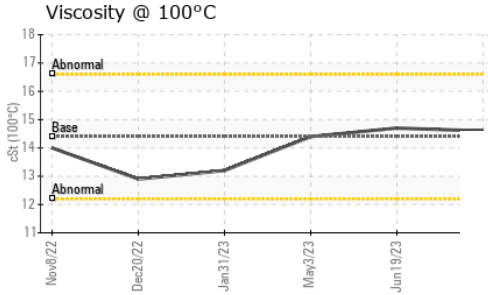
method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*	<b>&gt;25</b>	19.8	17.8

## VISUAL

method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	<b>&gt;0.1</b>	NEG	NEG
Free Water	scalar Visual*	<b>NEG</b>	NEG	NEG

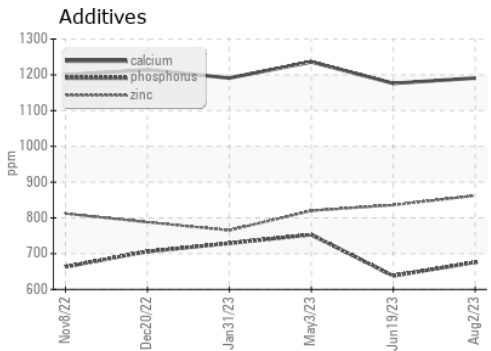
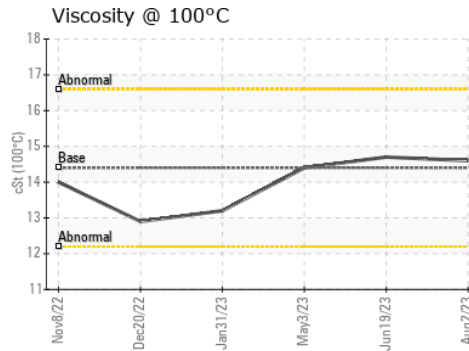
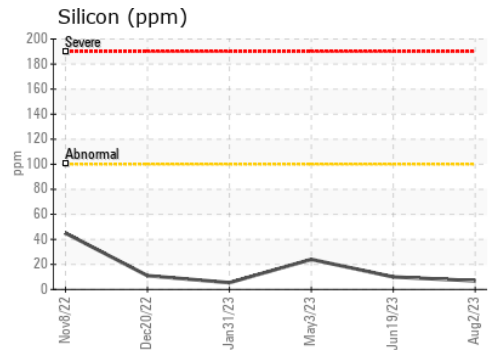
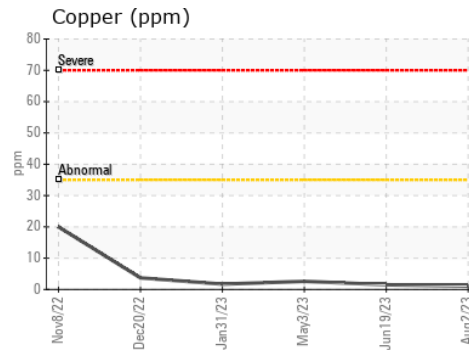
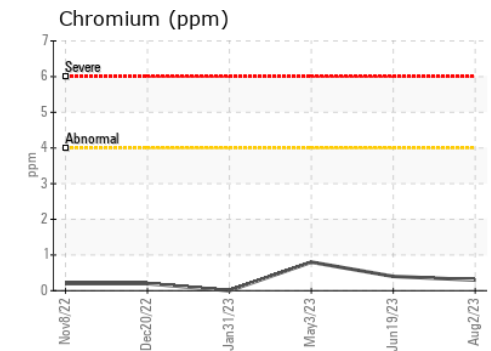
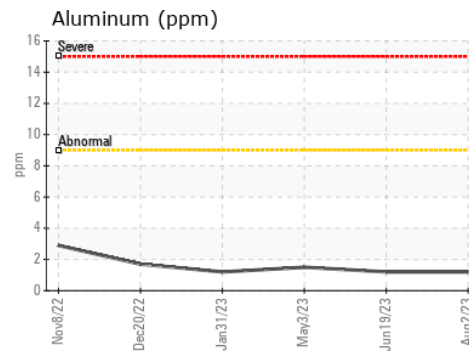
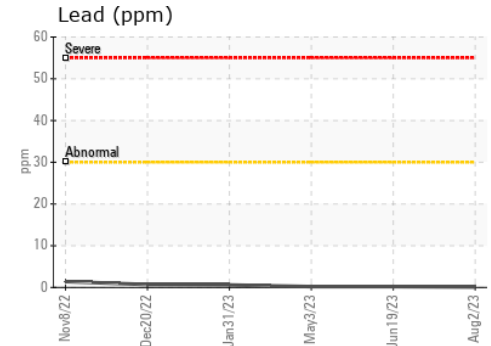
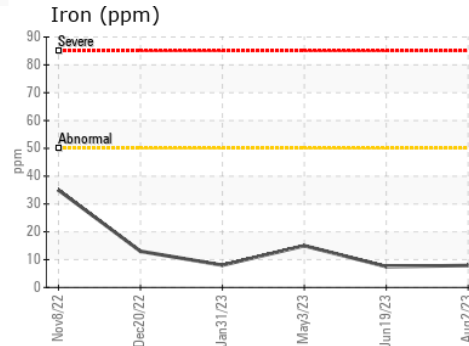


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.6	14.7	14.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0830188 **Received** : 14 Aug 2023  
**Lab Number** : 02575610 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 5620661 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**CITY OF HAMILTON**  
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM  
 MOUNT HOPE, ON  
 CA L0R 1W0  
 Contact: Jeff Parr  
 jeff.parr@hamilton.ca  
 T: (905)546-2424  
 F: (905)679-4502

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.