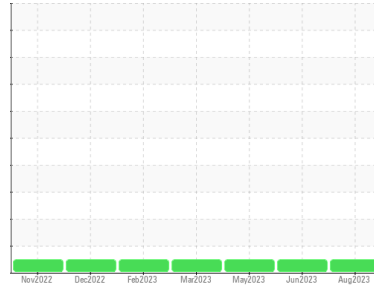




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2103**

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>WC0830303</b>	WC0811509	WC0791405
Sample Date	Client Info		<b>10 Aug 2023</b>	29 Jun 2023	22 May 2023
Machine Age	kms	Client Info	<b>60870</b>	54628	45952
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>9</b>	8
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1
Copper	ppm	ASTM D5185(m)	>35	<b>1</b>	1
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1
Antimony	ppm	ASTM D5185(m)		<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>14</b>	11
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>53</b>	53
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>811</b>	818
Calcium	ppm	ASTM D5185(m)	3000	<b>1222</b>	1260
Phosphorus	ppm	ASTM D5185(m)	1150	<b>708</b>	692
Zinc	ppm	ASTM D5185(m)	1350	<b>874</b>	874
Sulfur	ppm	ASTM D5185(m)	4250	<b>1991</b>	1953
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	<b>5</b>	5
Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.6</b>	12.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.0</b>	21.9

## FLUID DEGRADATION

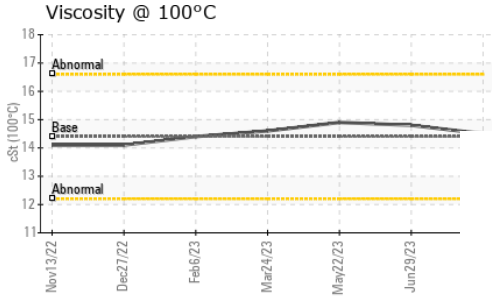
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.3</b>	20.3

## VISUAL

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

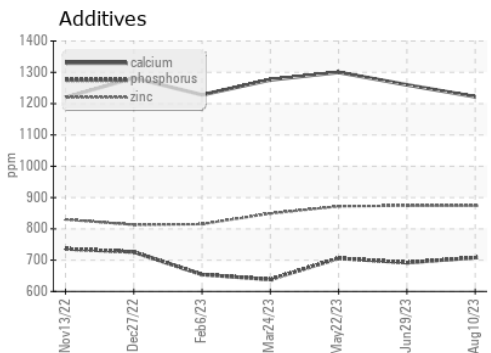
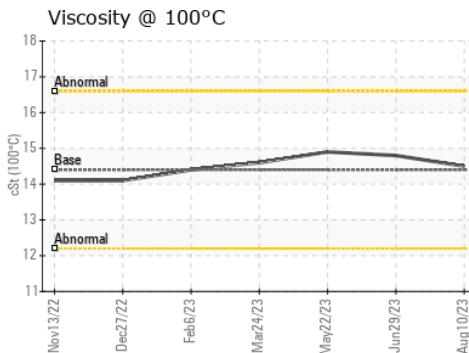
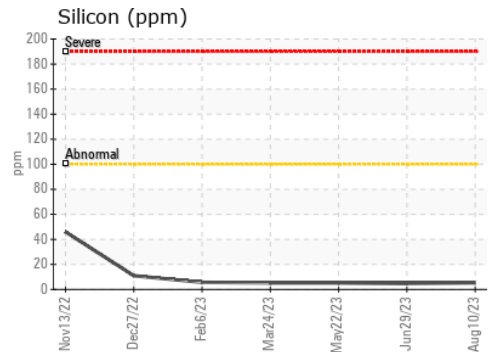
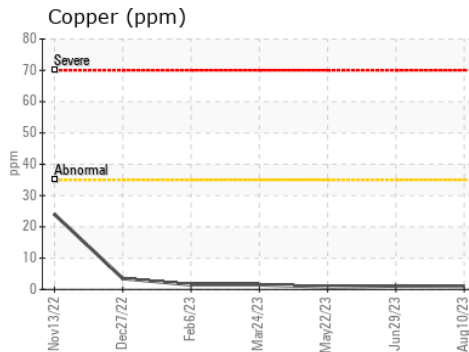
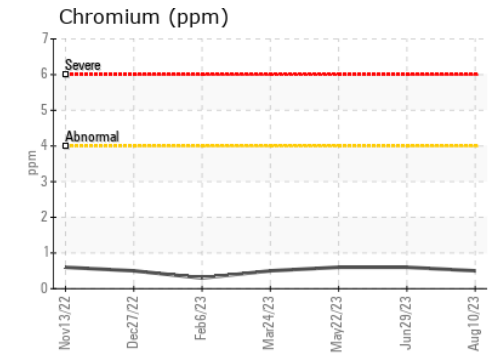
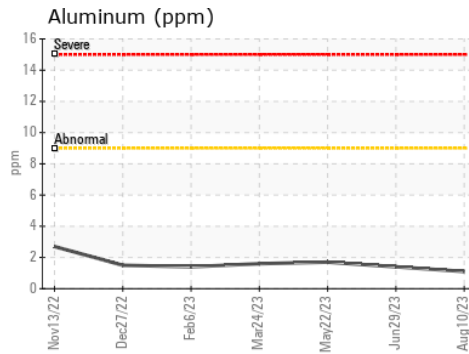
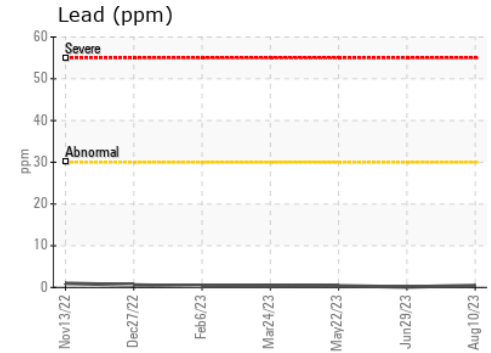
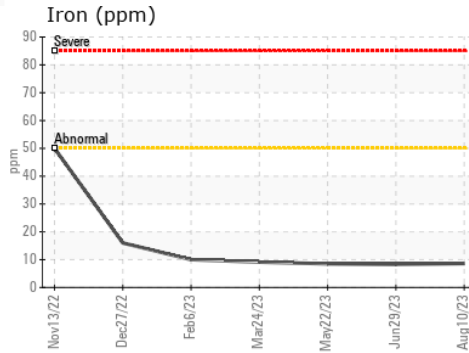


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.5	14.8	14.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0830303 **Received** : 15 Aug 2023  
**Lab Number** : 02575900 **Diagnosed** : 15 Aug 2023  
**Unique Number** : 5628960 **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.