



# OIL ANALYSIS REPORT

Sample Rating Trend

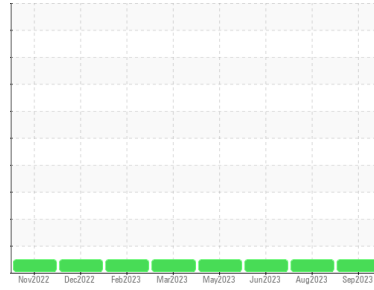
**NORMAL**



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>WC0849930</b>	WC0830303	WC0811509
Sample Date	Client Info		<b>28 Sep 2023</b>	10 Aug 2023	29 Jun 2023
Machine Age	kms	Client Info	<b>70467</b>	60870	54628
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>	9	8
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>35	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
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>	14	11
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>54</b>	53	53
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>767</b>	811	818
Calcium	ppm	ASTM D5185(m)	3000	<b>1272</b>	1222	1260
Phosphorus	ppm	ASTM D5185(m)	1150	<b>661</b>	708	692
Zinc	ppm	ASTM D5185(m)	1350	<b>900</b>	874	874
Sulfur	ppm	ASTM D5185(m)	4250	<b>1971</b>	1991	1953
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>5</b>	5	5
Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.5</b>	11.6	12.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.9</b>	22.0	21.9

## FLUID DEGRADATION

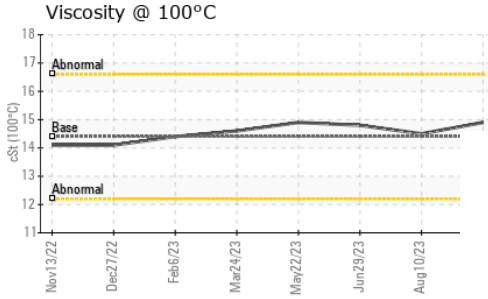
	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.6</b>	19.3	20.3

## VISUAL

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

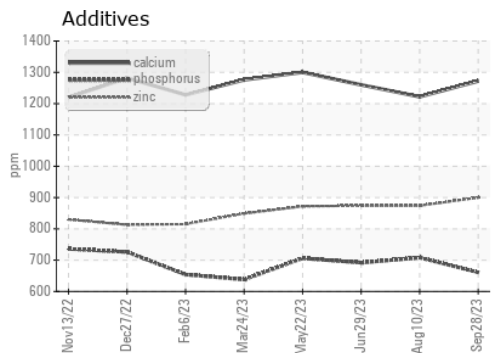
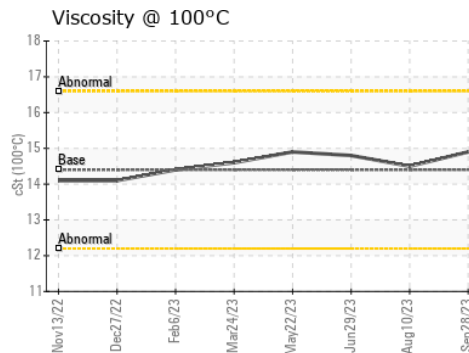
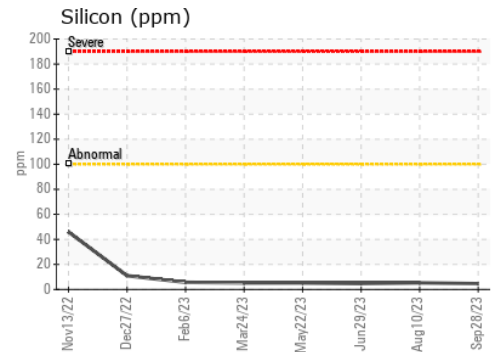
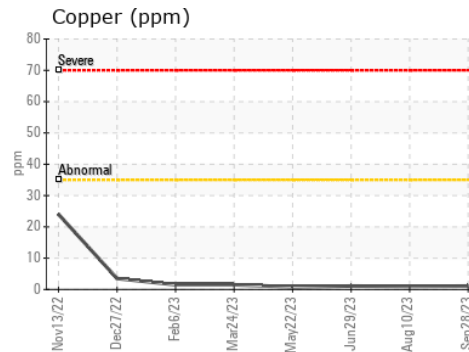
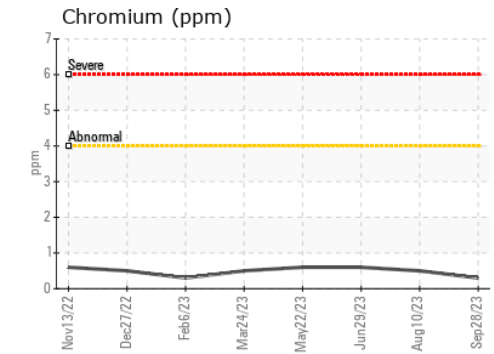
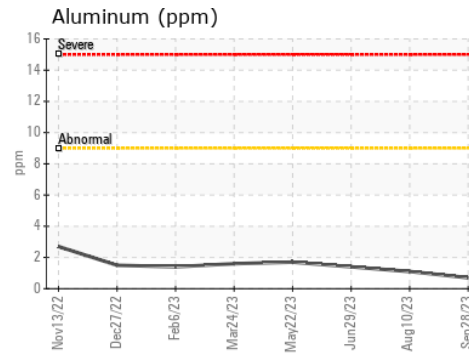
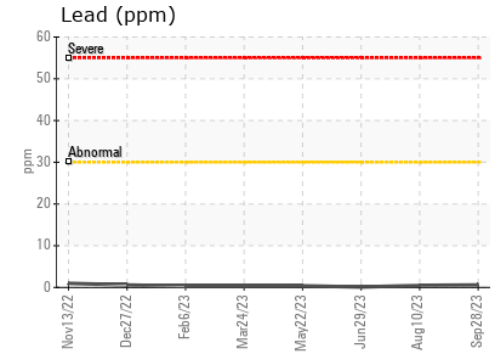
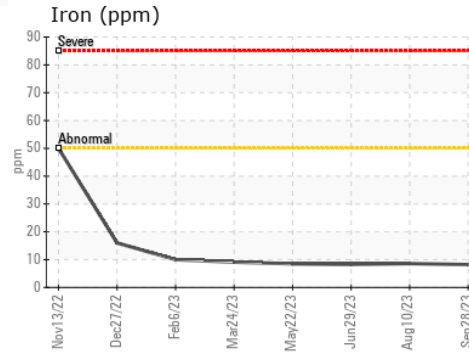


# OIL ANALYSIS REPORT



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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0849930  
**Lab Number** : 02586382  
**Unique Number** : 5655448  
**Test Package** : MOB 1

**Received** : 03 Oct 2023  
**Diagnosed** : 03 Oct 2023  
**Diagnostician** : Wes Davis

**CITY OF HAMILTON**  
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 MOUNT HOPE, ON  
 CA L0R 1W0  
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 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.