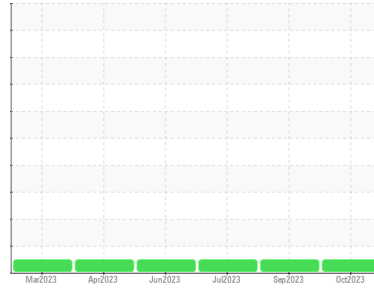




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**2204**

Component

**Natural Gas Engine**

Fluid

**VALVOLINE PREMIUM BLUE 9200 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>WC0830238</b>	WC0849833	WC0830056
Sample Date	Client Info		<b>19 Oct 2023</b>	01 Sep 2023	17 Jul 2023
Machine Age	kms	Client Info	<b>48834</b>	0	31537
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
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>0</b>	<1
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</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>0</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)		<b>11</b>	10
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Molybdenum	ppm	ASTM D5185(m)		<b>54</b>	53
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m)		<b>802</b>	796
Calcium	ppm	ASTM D5185(m)		<b>1234</b>	1202
Phosphorus	ppm	ASTM D5185(m)		<b>662</b>	681
Zinc	ppm	ASTM D5185(m)		<b>878</b>	871
Sulfur	ppm	ASTM D5185(m)		<b>1943</b>	1978
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	<b>4</b>	6
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.1</b>	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.1</b>	22.0

## FLUID DEGRADATION

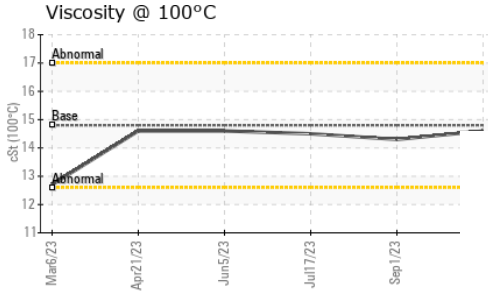
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.1</b>	18.1

## 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

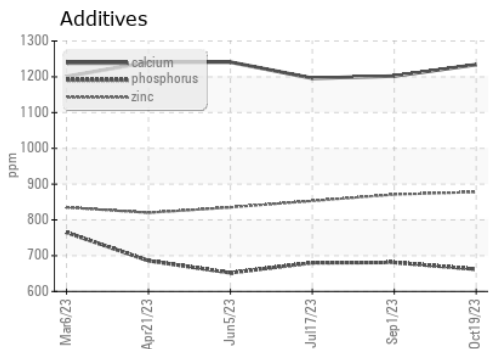
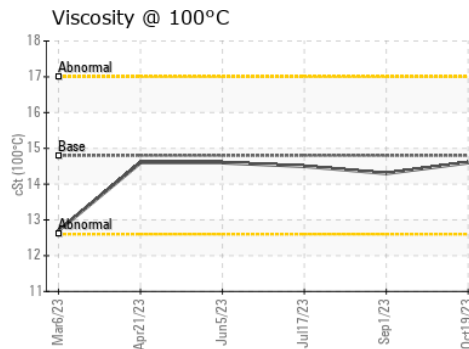
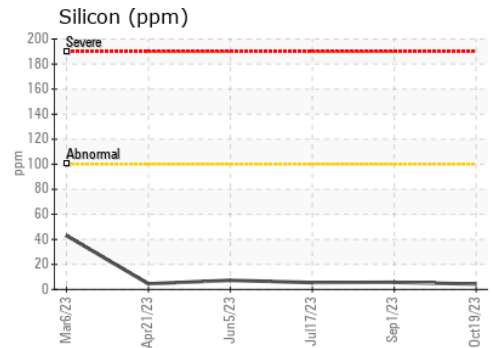
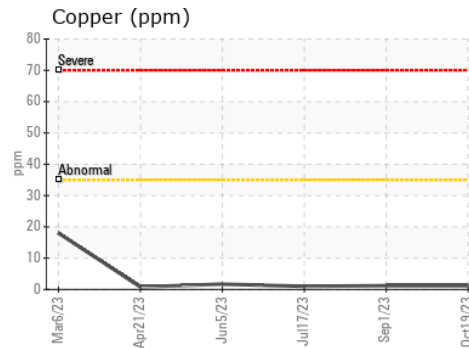
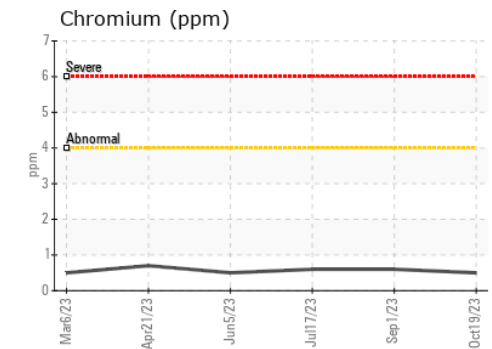
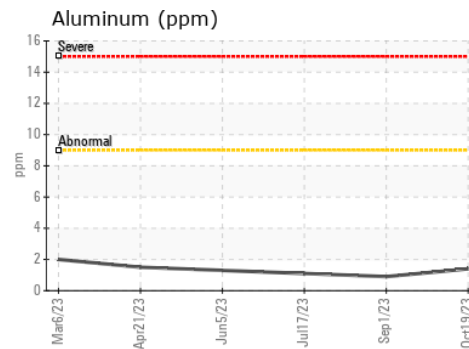
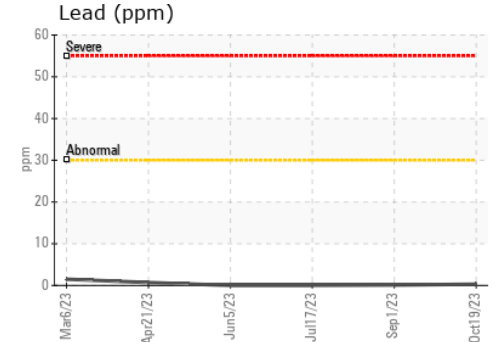
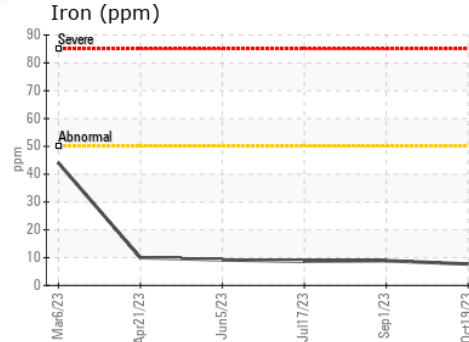


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	<b>14.6</b>	14.3	14.5

## GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC0830238  
 Lab Number : 02590913  
 Unique Number : 5667992  
 Test Package : MOB 1

**CITY OF HAMILTON**  
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM  
 MOUNT HOPE, ON  
 CA L0R 1W0  
 Contact: Cliff Bird  
 cliff.bird@hamilton.ca  
 T:  
 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.