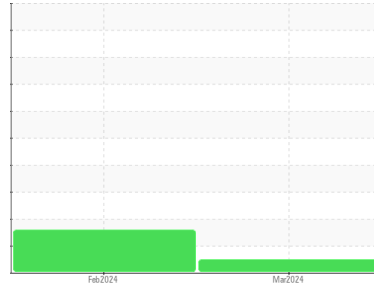




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2284**

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>WC0917680</b>	WC0890918	---
Sample Date	Client Info		<b>25 Mar 2024</b>	09 Feb 2024	---
Machine Age	kms	Client Info	<b>15037</b>	5625	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>---</b>	0.0	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	<b>17</b>	43
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>	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	3
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	1
Copper	ppm	ASTM D5185(m)	>35	<b>4</b>	17
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>12</b>	21
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	4
Molybdenum	ppm	ASTM D5185(m)		<b>54</b>	52
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	11
Magnesium	ppm	ASTM D5185(m)		<b>795</b>	769
Calcium	ppm	ASTM D5185(m)		<b>1243</b>	1185
Phosphorus	ppm	ASTM D5185(m)		<b>641</b>	738
Zinc	ppm	ASTM D5185(m)		<b>852</b>	843
Sulfur	ppm	ASTM D5185(m)		<b>1921</b>	2092
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	<b>9</b>	39
Sodium	ppm	ASTM D5185(m)		<b>3</b>	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2

## INFRA-RED

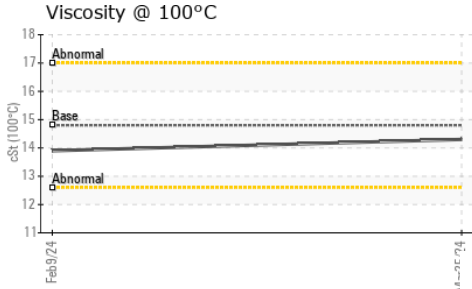
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.6</b>	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.7</b>	21.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.3</b>	18.9



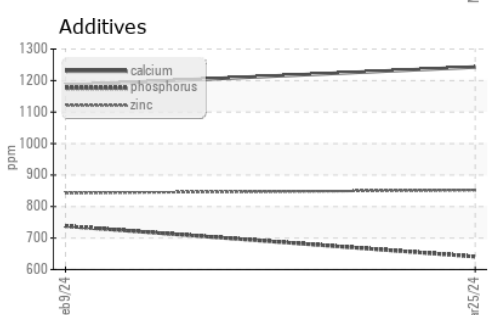
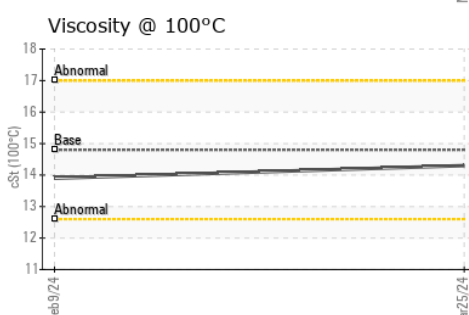
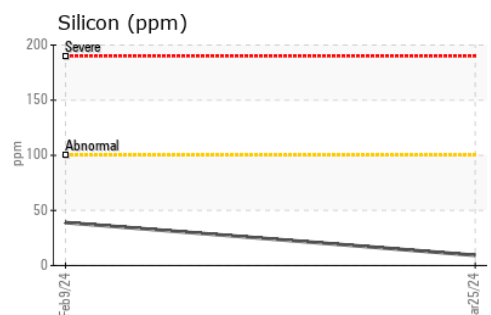
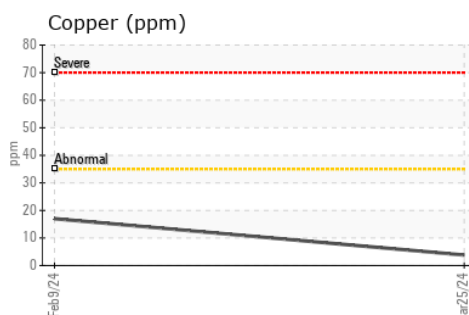
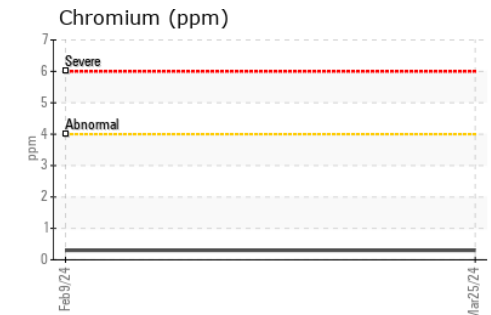
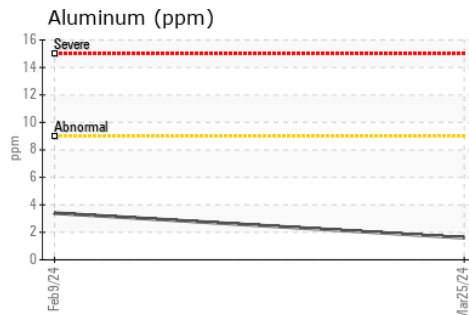
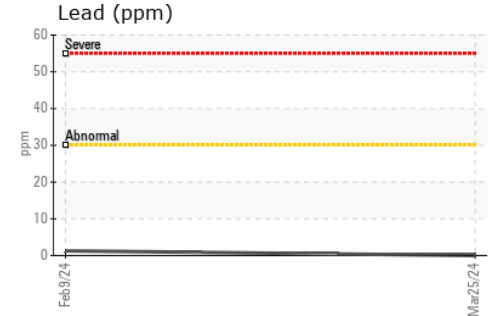
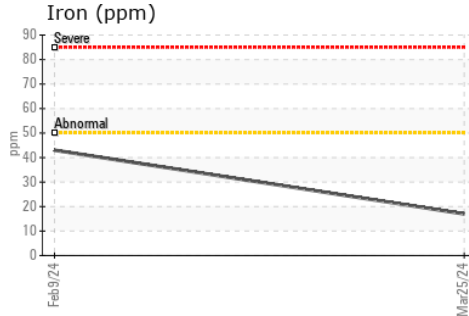
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	▲ .2%
Free Water	scalar	Visual*		NEG	

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	<b>14.3</b>	13.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0917680 **Received** : 01 Apr 2024  
**Lab Number** : 02625669 **Tested** : 01 Apr 2024  
**Unique Number** : 5750788 **Diagnosed** : 01 Apr 2024 - 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.