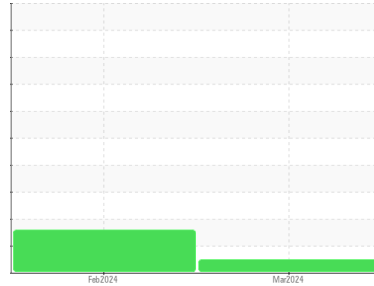




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2282**

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>WC0917608</b>	WC0890942	---
Sample Date	Client Info			<b>13 Mar 2024</b>	07 Feb 2024	---
Machine Age	kms	Client Info		<b>21287</b>	15230	---
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>9</b>	39	---
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>&lt;1</b>	1	---
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	14	---
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)		<b>26</b>	14	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185(m)		<b>51</b>	55	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	9	---
Magnesium	ppm	ASTM D5185(m)		<b>783</b>	840	---
Calcium	ppm	ASTM D5185(m)		<b>1203</b>	1264	---
Phosphorus	ppm	ASTM D5185(m)		<b>704</b>	719	---
Zinc	ppm	ASTM D5185(m)		<b>813</b>	878	---
Sulfur	ppm	ASTM D5185(m)		<b>2035</b>	2034	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

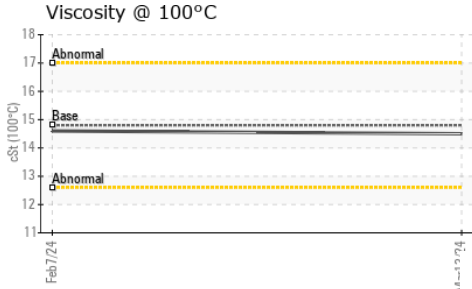
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	<b>6</b>	30	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.8</b>	14.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.9</b>	23.2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.0</b>	21.3	---



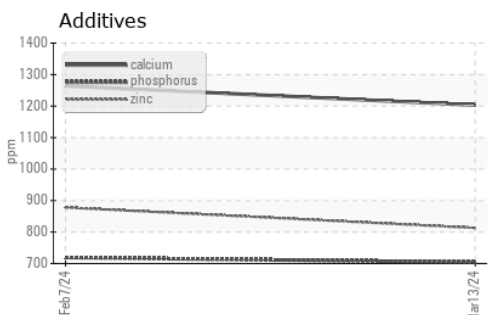
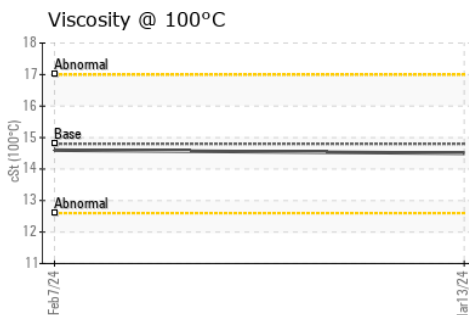
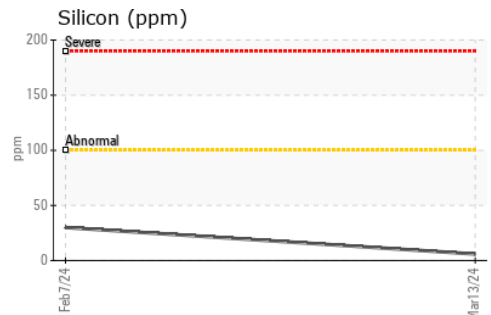
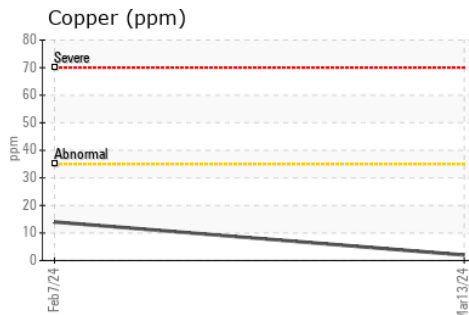
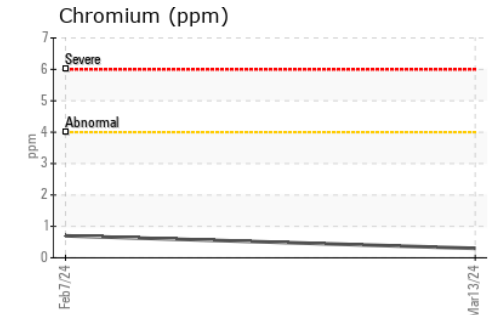
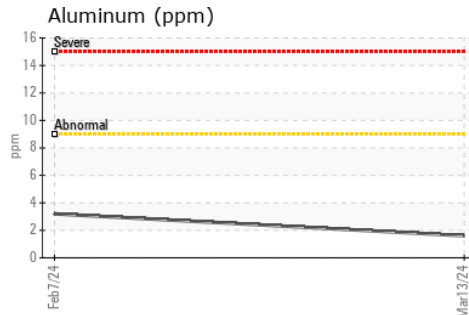
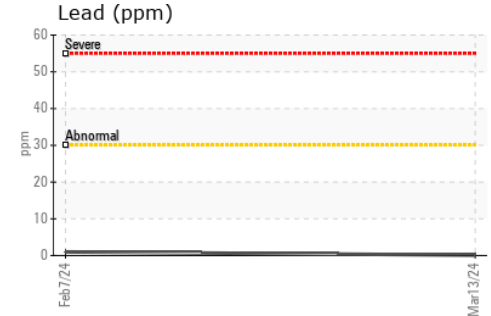
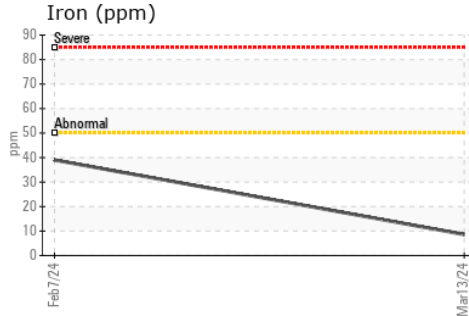
# OIL ANALYSIS REPORT



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	14.5	14.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0917608 **Received** : 18 Mar 2024  
**Lab Number** : 02622665 **Tested** : 18 Mar 2024  
**Unique Number** : 5747784 **Diagnosed** : 18 Mar 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.