



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**2285**

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>WC0937109</b>	---	---
Sample Date	Client Info		<b>19 Jun 2024</b>	---	---
Machine Age	kms	Client Info	<b>8571</b>	---	---
Oil Age	kms	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>50</b>	---	---
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >2	<b>1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >35	<b>17</b>	---	---
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>21</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>3</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>52</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>13</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>721</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>1133</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>592</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>811</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>1798</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	<b>41</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	---	---

## INFRA-RED

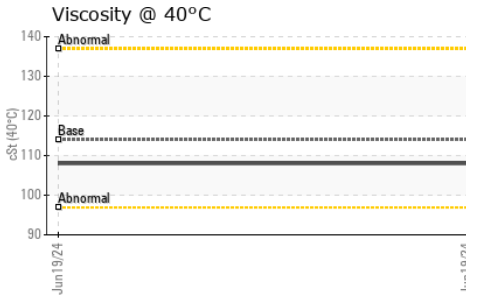
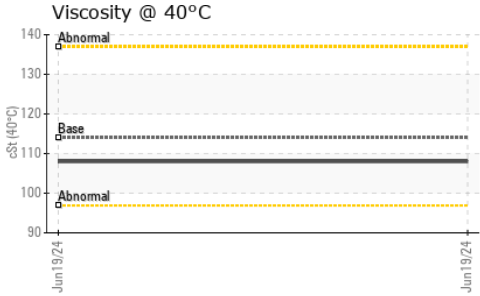
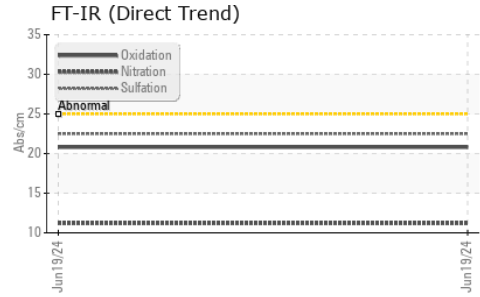
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>11.2</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>22.5</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>20.8</b>	---	---



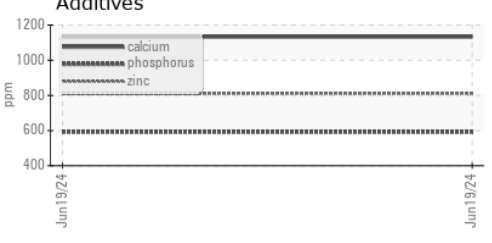
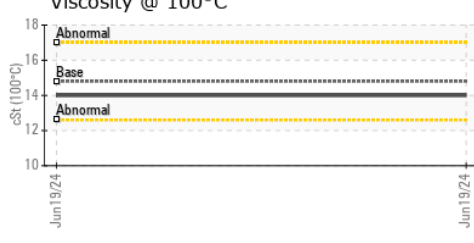
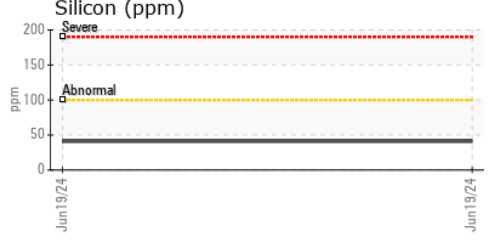
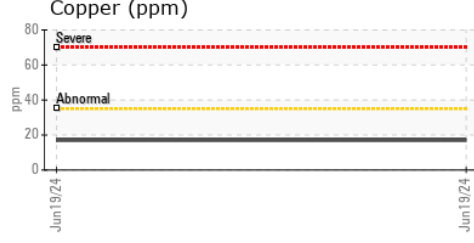
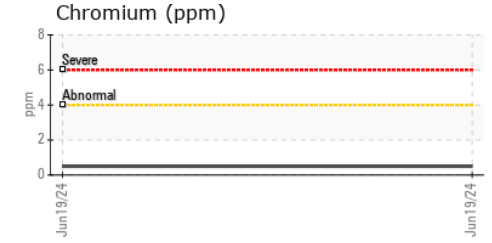
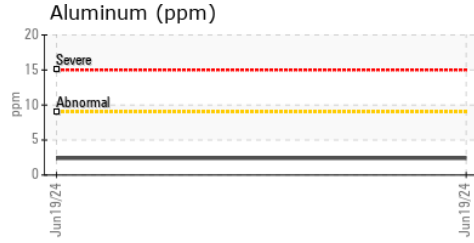
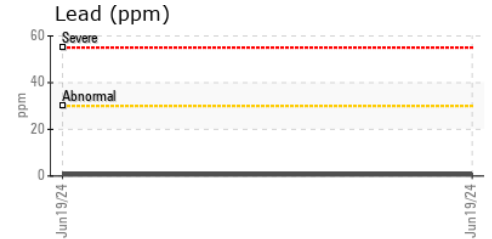
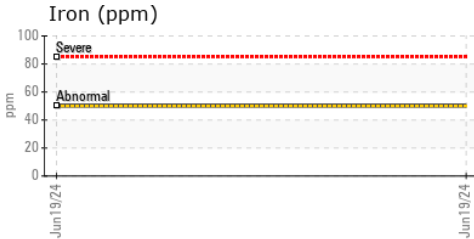
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	114	108	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.0	---
Viscosity Index (VI)	Scale	ASTM D2270*	133	130	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0937109 **Received** : 25 Jun 2024  
**Lab Number** : 02644020 **Tested** : 26 Jun 2024  
**Unique Number** : 5801559 **Diagnosed** : 26 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**CITY OF HAMILTON**  
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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.