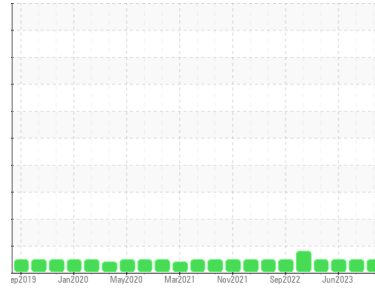




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[1494772]**  
 Machine Id  
**NOVA 1714**

Component  
**Natural Gas Engine**  
 Fluid

**VALVOLINE PREMIUM BLUE 9200 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### 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>WC0878120</b>	WC0830256	WC0811422
Sample Date	Client Info		<b>05 Dec 2023</b>	01 Sep 2023	05 Jun 2023
Machine Age	kms	Client Info	<b>359292</b>	0	323676
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

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	<b>9</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>2</b>	1
Lead	ppm	ASTM D5185(m)	>30	<b>3</b>	7
Copper	ppm	ASTM D5185(m)	>35	<b>10</b>	10
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>7</b>	4
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Molybdenum	ppm	ASTM D5185(m)		<b>55</b>	52
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m)		<b>839</b>	836
Calcium	ppm	ASTM D5185(m)		<b>1293</b>	1241
Phosphorus	ppm	ASTM D5185(m)		<b>661</b>	699
Zinc	ppm	ASTM D5185(m)		<b>908</b>	873
Sulfur	ppm	ASTM D5185(m)		<b>1901</b>	1821
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	<b>12</b>	5
Sodium	ppm	ASTM D5185(m)		<b>5</b>	3
Potassium	ppm	ASTM D5185(m)	>20	<b>15</b>	<1
Glycol	%	ASTM D7922*		<b>0.0</b>	---

## INFRA-RED

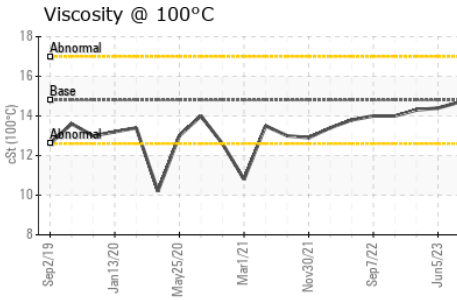
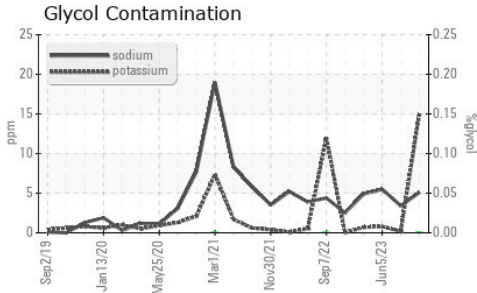
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.3</b>	14.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.4</b>	26.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.4</b>	23.9



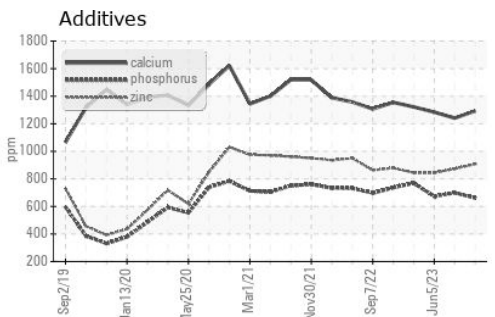
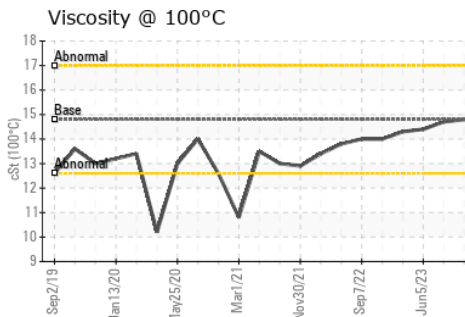
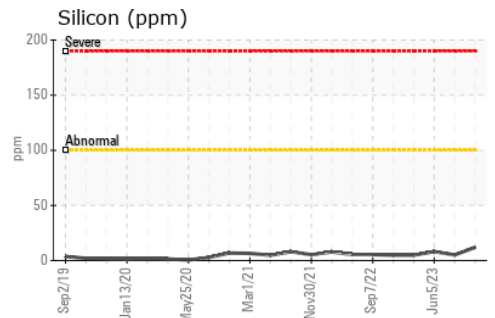
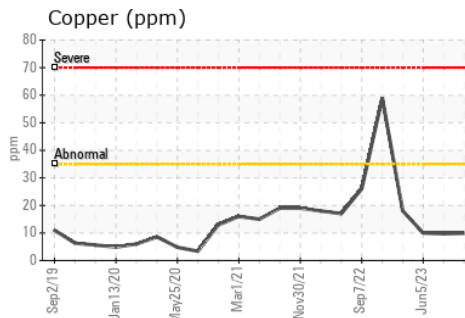
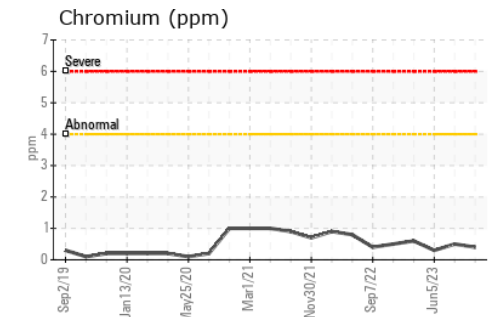
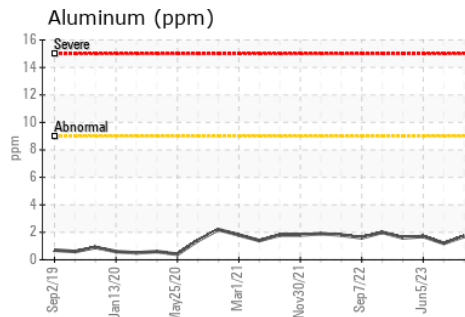
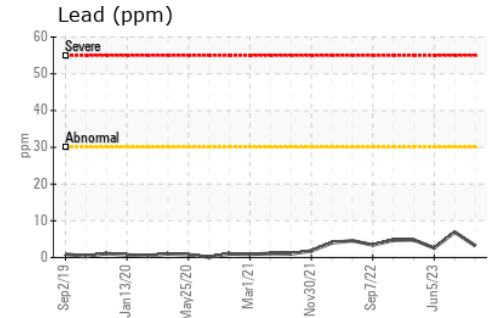
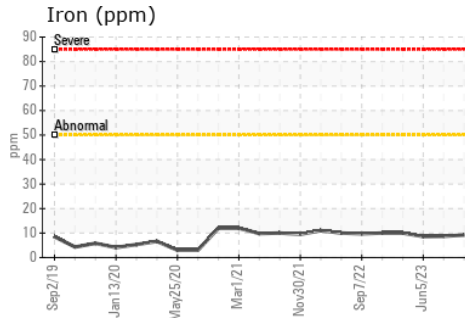
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.7	14.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0878120  
**Lab Number** : 02601793  
**Unique Number** : 5694878  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**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.