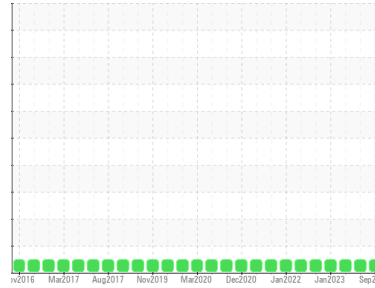




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**NOVA BUS 1613**

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>WC0849924</b>	WC0811603	WC0791283
Sample Date	Client Info		<b>30 Sep 2023</b>	10 Jul 2023	05 Apr 2023
Machine Age	kms	Client Info	<b>0</b>	450046	0
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>10</b>	12	15
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	1
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>6</b>	10	5
Copper	ppm	ASTM D5185(m) >35	<b>1</b>	1	2
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>14</b>	16	10
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>55</b>	54	58
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>870</b>	889	902
Calcium	ppm	ASTM D5185(m)	<b>1296</b>	1283	1410
Phosphorus	ppm	ASTM D5185(m)	<b>743</b>	778	794
Zinc	ppm	ASTM D5185(m)	<b>930</b>	914	919
Sulfur	ppm	ASTM D5185(m)	<b>1983</b>	1947	2047
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	<b>6</b>	4	6
Sodium	ppm	ASTM D5185(m)	<b>5</b>	4	6
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>&gt;20</b>	12.0	14.5
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	25.1	27.6

## FLUID DEGRADATION

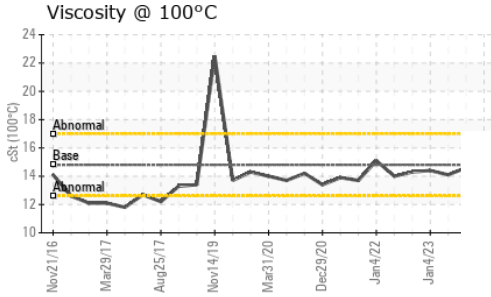
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	22.7	22.8

## VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	<b>&gt;0.1</b>	NEG	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

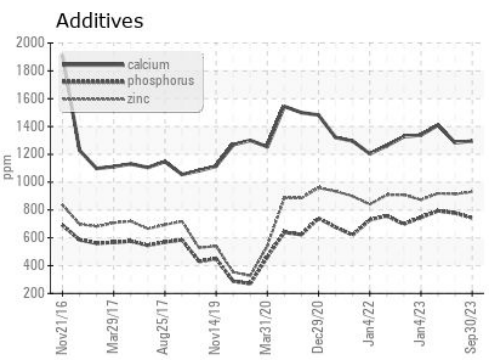
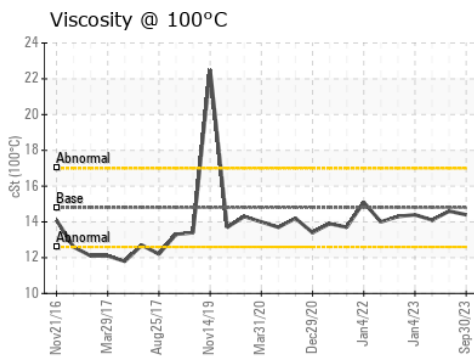
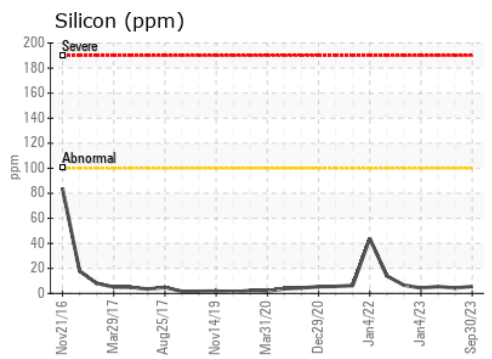
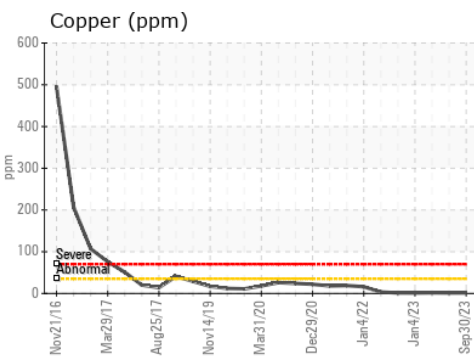
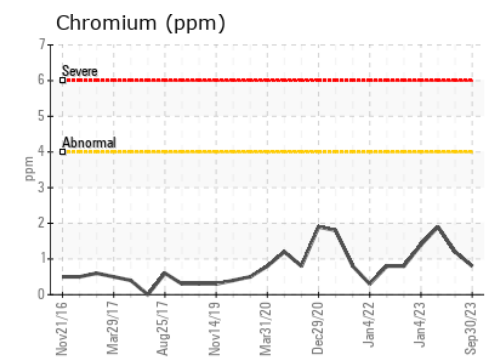
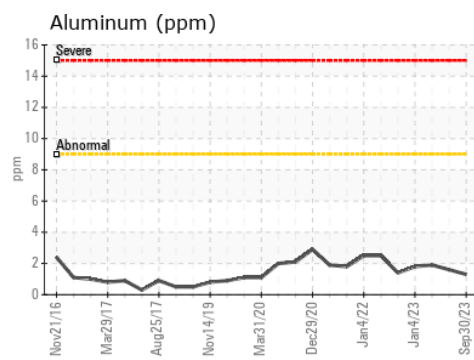
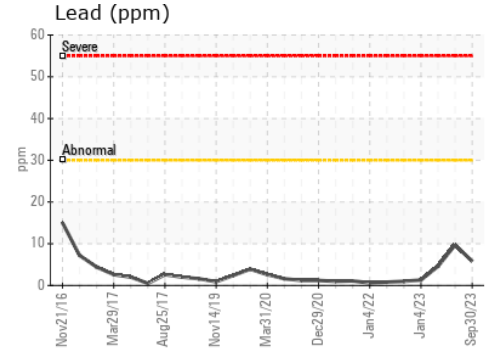
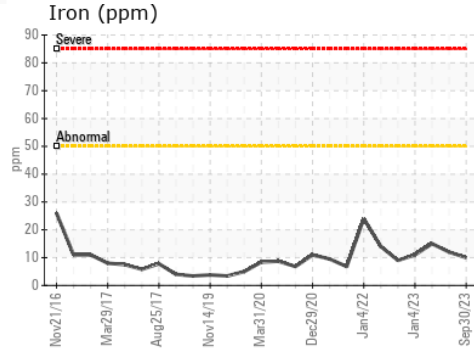


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	<b>14.4</b>	14.6	14.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0849924  
**Lab Number** : 02586654  
**Unique Number** : 5655720  
**Test Package** : MOB 1

**Received** : 04 Oct 2023  
**Diagnosed** : 04 Oct 2023  
**Diagnostician** : Wes Davis

**CITY OF HAMILTON**  
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM  
 MOUNT HOPE, ON  
 CA L0R 1W0  
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 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.