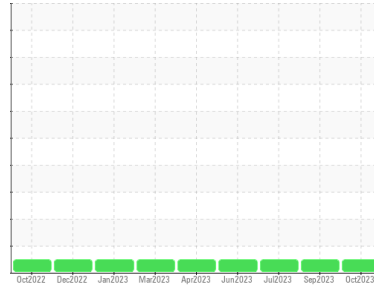




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2106**

Component  
**Natural Gas Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>WC0830247</b>	WC0849820	WC0830059
Sample Date	Client Info		<b>17 Oct 2023</b>	02 Sep 2023	14 Jul 2023
Machine Age	kms	Client Info	<b>0</b>	0	39960
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>6</b>	6	8
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	0
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>	1	1
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >35	<b>1</b>	2	1
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	0	<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) 250	<b>16</b>	18	12
Barium	ppm	ASTM D5185(m) 10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>51</b>	50	50
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 450	<b>782</b>	789	785
Calcium	ppm	ASTM D5185(m) 3000	<b>1203</b>	1186	1194
Phosphorus	ppm	ASTM D5185(m) 1150	<b>678</b>	736	665
Zinc	ppm	ASTM D5185(m) 1350	<b>861</b>	855	848
Sulfur	ppm	ASTM D5185(m) 4250	<b>1882</b>	1945	1912
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>4</b>	4	5
Sodium	ppm	ASTM D5185(m) >158	<b>2</b>	2	3
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0	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>	10.9	11.9
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	21.6	21.7

## FLUID DEGRADATION

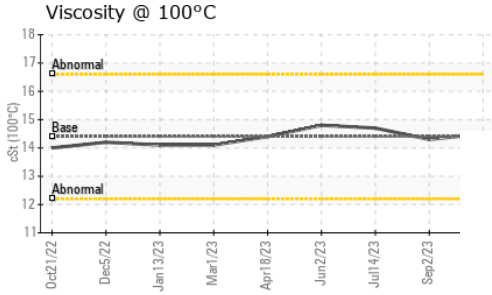
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	19.2	18.6
				19.5	

## VISUAL

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

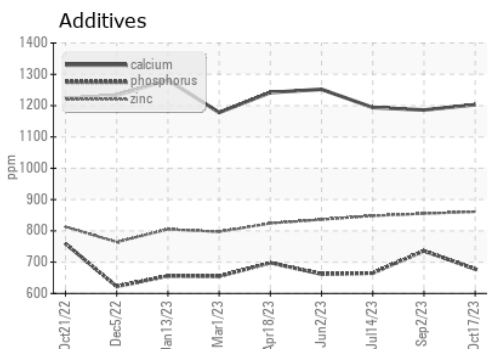
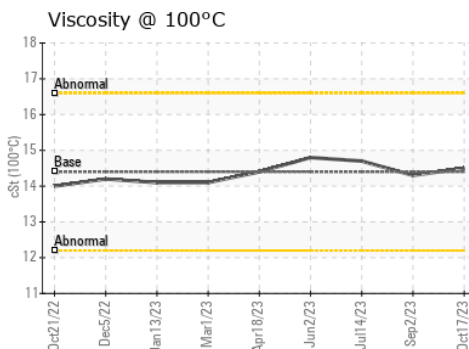
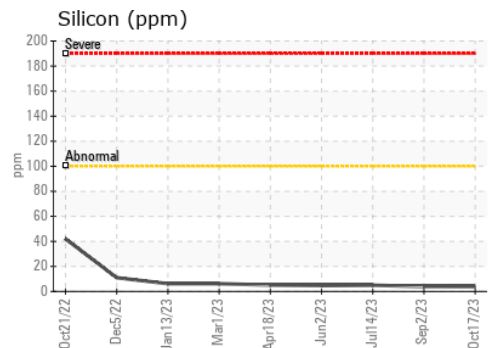
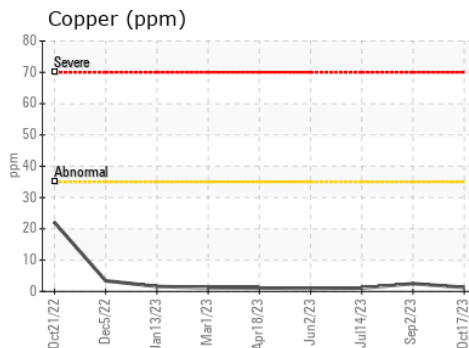
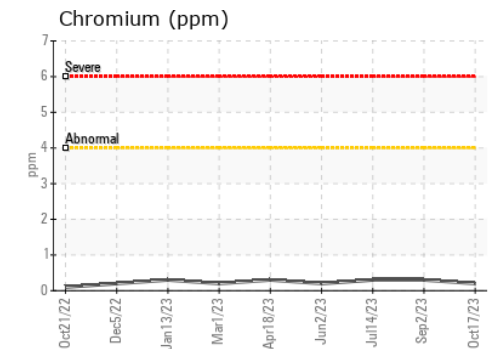
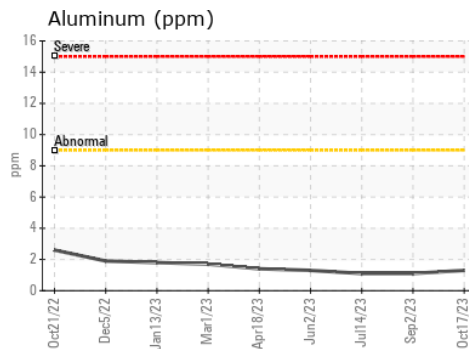
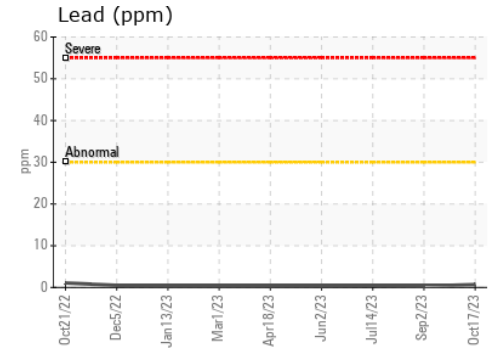
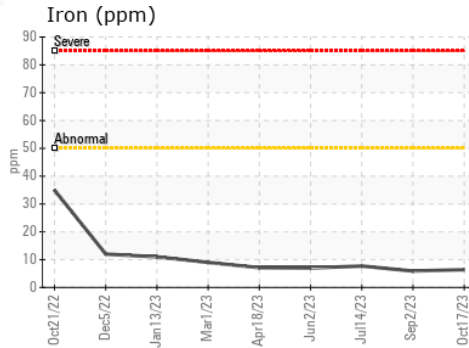


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.5</b>	14.3	14.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0830247  
**Lab Number** : 02590917  
**Unique Number** : 5667996  
**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.