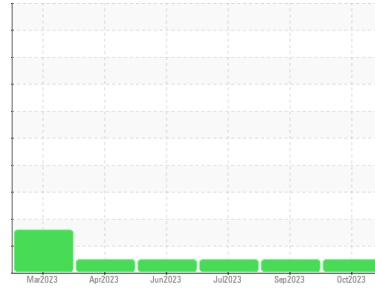




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**2212**

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

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>WC0849762</b>	WC0849702	WC0830110
Sample Date	Client Info		<b>25 Oct 2023</b>	08 Sep 2023	24 Jul 2023
Machine Age	kms	Client Info	<b>49524</b>	38262	28878
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>8</b>	8	8
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
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>	1	1
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	1	1
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) 250	<b>15</b>	9	11
Barium	ppm	ASTM D5185(m) 10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>61</b>	53	52
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 450	<b>924</b>	813	819
Calcium	ppm	ASTM D5185(m) 3000	<b>1398</b>	1234	1205
Phosphorus	ppm	ASTM D5185(m) 1150	<b>763</b>	699	655
Zinc	ppm	ASTM D5185(m) 1350	<b>1008</b>	878	850
Sulfur	ppm	ASTM D5185(m) 4250	<b>2209</b>	2022	1933
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>5</b>	6	6
Sodium	ppm	ASTM D5185(m) >158	<b>7</b>	3	2
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304* >0.1	<b>0.039</b>	---	---
ppm Water	ppm	ASTM D6304* >1000	<b>394.3</b>	---	---
Glycol	%	ASTM D7922*	<b>0.0</b>	---	---

## INFRA-RED

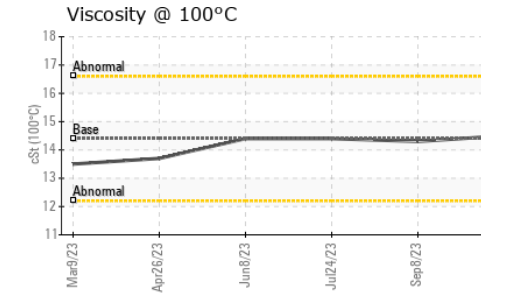
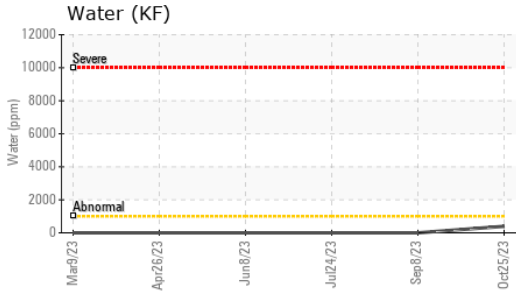
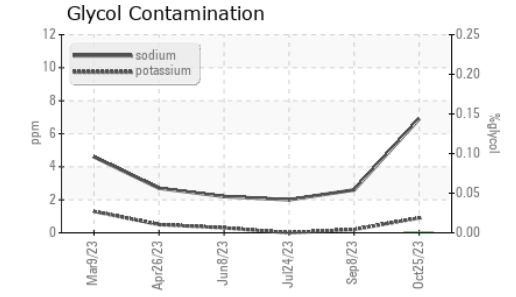
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624* >20	<b>11.2</b>	11.9	12.1
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>23.1</b>	22.6	21.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>20.2</b>	19.9	19.4



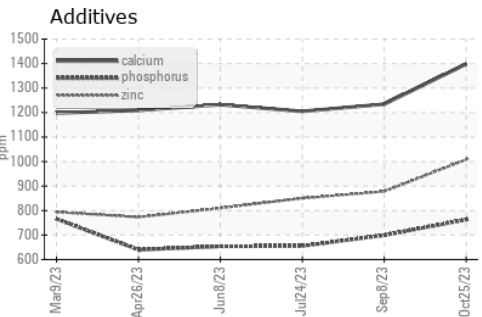
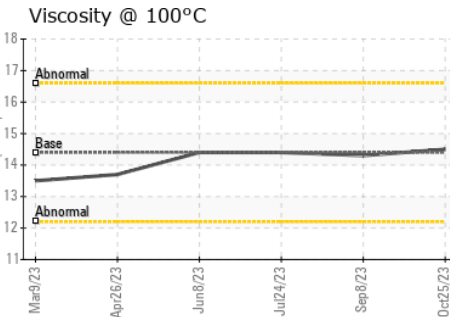
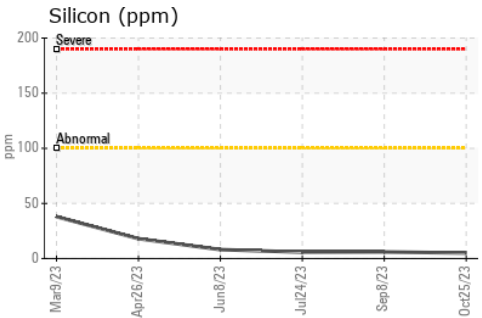
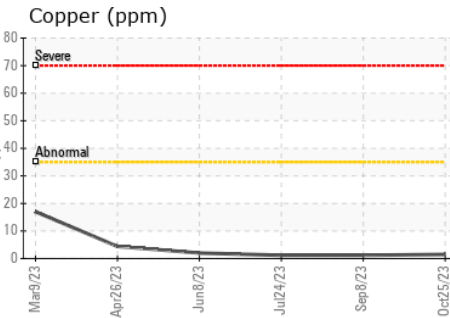
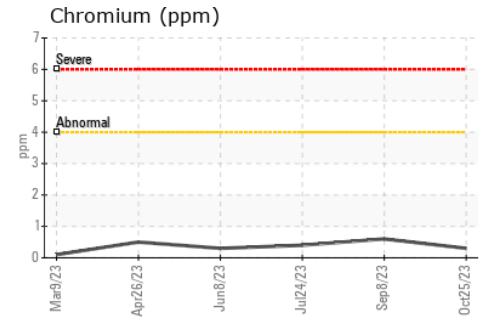
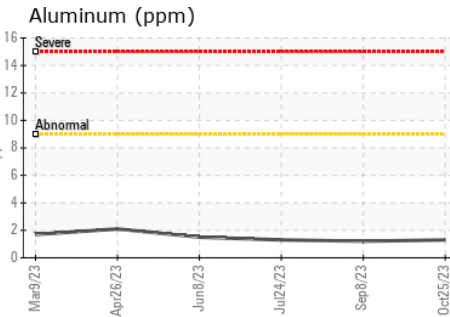
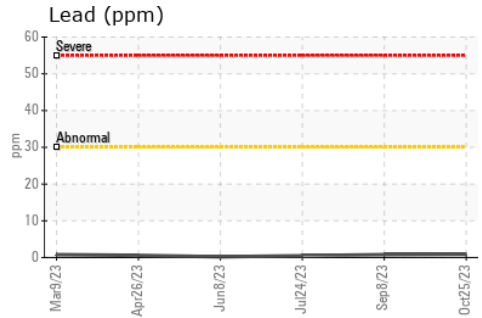
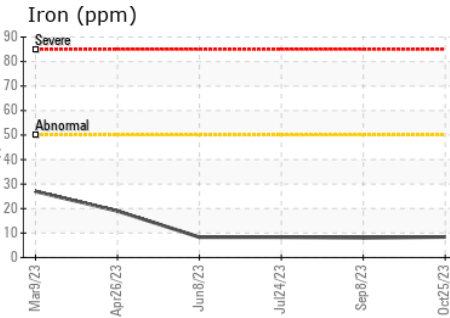
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.1	.5%	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0849762  
**Lab Number** : 02592918  
**Unique Number** : 5669997  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF )

**CITY OF HAMILTON**  
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM  
 MOUNT HOPE, ON  
 CA L0R 1W0  
 Contact: Cliff Bird  
 cliff.bird@hamilton.ca  
 T:  
 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.