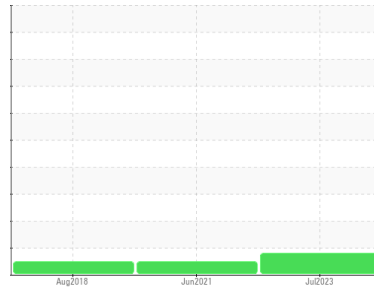




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**M0664**

Component  
**Natural Gas Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (22 LTR)**

## DIAGNOSIS

### ▲ Recommendation

Resample at the next service interval to monitor.

### ▲ Wear

Copper ppm levels are noted. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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>WC0836822</b>	WC0582075	WC111979
Sample Date	Client Info		<b>24 Jul 2023</b>	14 Jun 2021	09 Aug 2018
Machine Age	hrs	Client Info	<b>283</b>	178	69
Oil Age	hrs	Client Info	<b>60</b>	63	69
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ATTENTION</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>5</b>	<1	6
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>10</b>	0	21
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m)	>30	<b>5</b>	0	4
Copper	ppm	ASTM D5185(m)	>35	<b>▲ 140</b>	<1	100
Tin	ppm	ASTM D5185(m)	>4	<b>2</b>	0	2
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
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>39</b>	4	97
Barium	ppm	ASTM D5185(m)	10	<b>1</b>	0	2
Molybdenum	ppm	ASTM D5185(m)	100	<b>64</b>	2	100
Manganese	ppm	ASTM D5185(m)		<b>1</b>	0	2
Magnesium	ppm	ASTM D5185(m)	450	<b>273</b>	15	9
Calcium	ppm	ASTM D5185(m)	3000	<b>1853</b>	2109	2020
Phosphorus	ppm	ASTM D5185(m)	1150	<b>883</b>	887	695
Zinc	ppm	ASTM D5185(m)	1350	<b>998</b>	985	788
Sulfur	ppm	ASTM D5185(m)	4250	<b>2736</b>	2978	2580
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>21</b>	4	21
Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	1	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.8</b>	5.3	4.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.3</b>	15.6	15.5

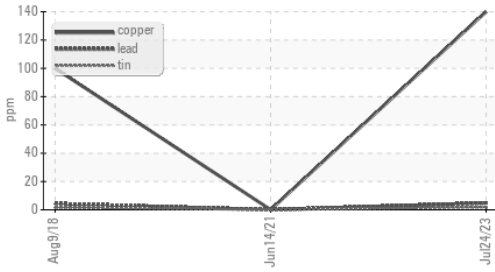
## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>10.4</b>	8.8	8.2



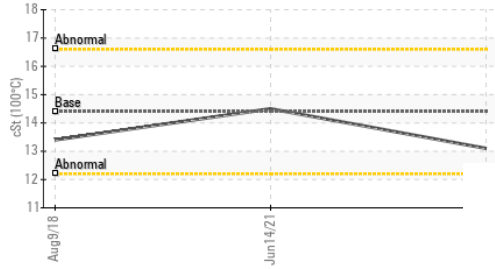
# OIL ANALYSIS REPORT

### ▲ Non-ferrous Metals



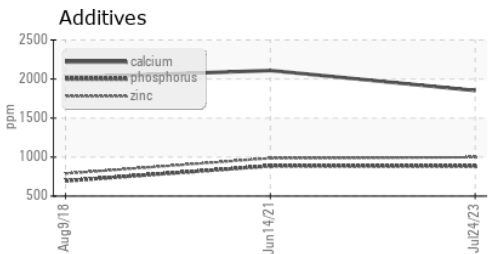
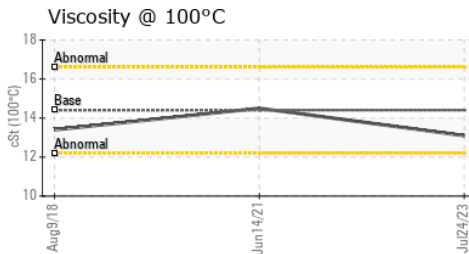
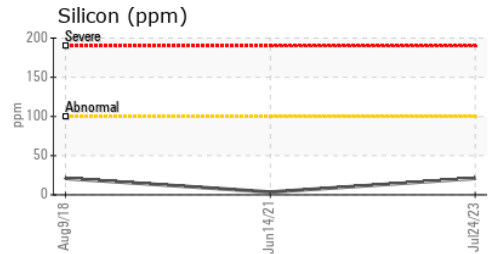
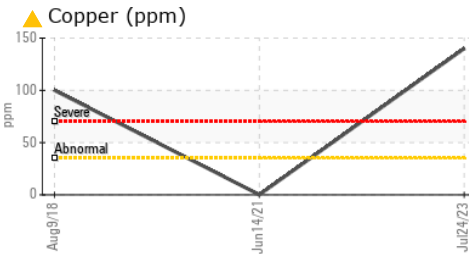
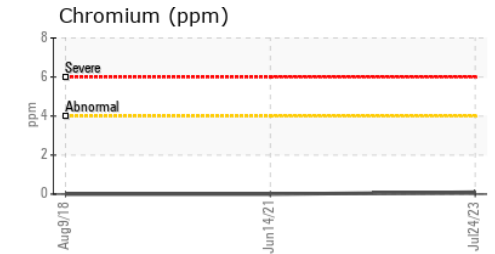
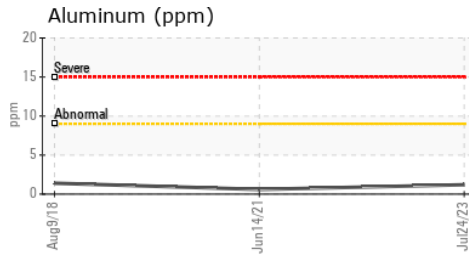
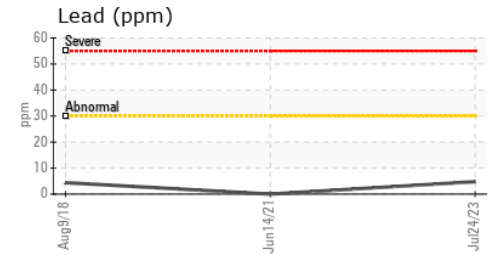
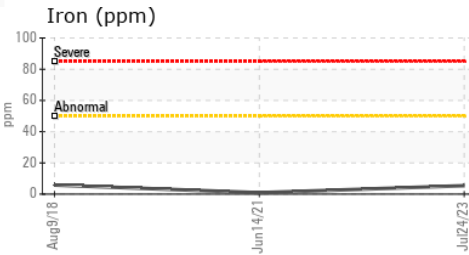
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	VLITE	---	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE
Precipitate	scalar	Visual*	NONE	NONE	---	NONE
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	VLITE	---	NONE
Sand/Dirt	scalar	Visual*	NONE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

### Viscosity @ 100°C



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.1	14.5	13.4

### GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0836822      **Received** : 10 Aug 2023  
**Lab Number** : 02575062      **Diagnosed** : 10 Aug 2023  
**Unique Number** : 5620113      **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FILTERPATCH, Visual )

**GENCARE SERVICES LTD.**  
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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.