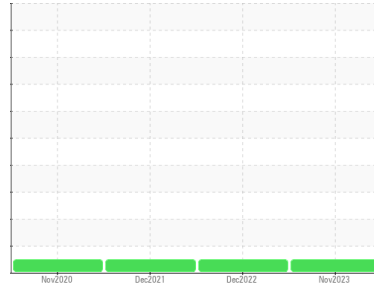




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**GR011**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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>WC0836752</b>	WC0764001	WC0634049
Sample Date	Client Info		<b>21 Nov 2023</b>	01 Dec 2022	01 Dec 2021
Machine Age	hrs	Client Info	<b>64</b>	58	49
Oil Age	hrs	Client Info	<b>5</b>	10	10
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>250	<b>3</b>	6	5
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>35	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>60	<b>6</b>	15	13
Tin	ppm	ASTM D5185(m)	>5	<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>15</b>	43	42
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	2	2
Molybdenum	ppm	ASTM D5185(m)	100	<b>11</b>	28	27
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185(m)	450	<b>26</b>	49	49
Calcium	ppm	ASTM D5185(m)	3000	<b>2214</b>	2363	2167
Phosphorus	ppm	ASTM D5185(m)	1150	<b>870</b>	971	931
Zinc	ppm	ASTM D5185(m)	1350	<b>986</b>	1034	1031
Sulfur	ppm	ASTM D5185(m)	4250	<b>3228</b>	3194	3092
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

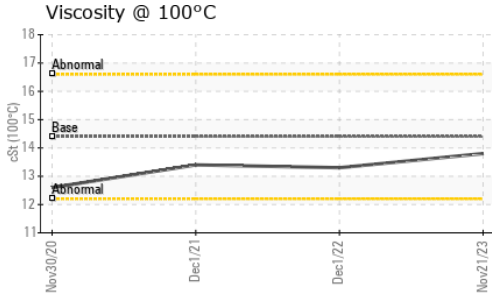
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>35	<b>8</b>	12	11
Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	5	4
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	4	2

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.4</b>	6.2	3.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>15.4</b>	17.1	13.5



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
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Oxidation	Abs./1mm	ASTM D7414*	>25	<b>9.1</b>	10.5	6.1
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VISUAL		method	limit/base	current	history1	history2
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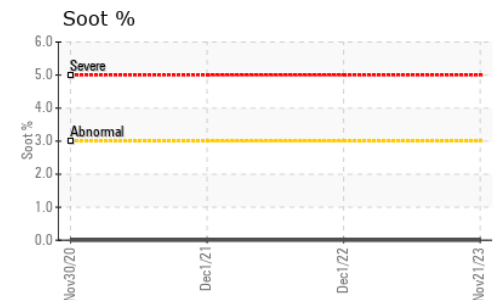
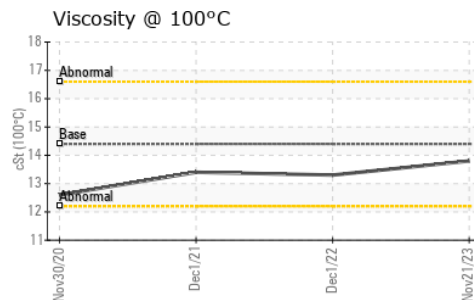
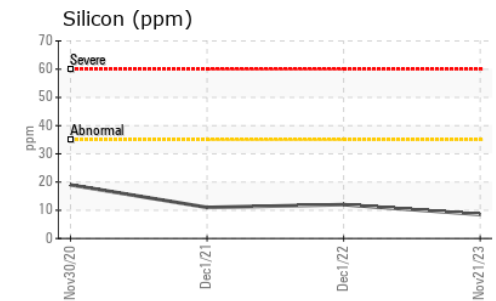
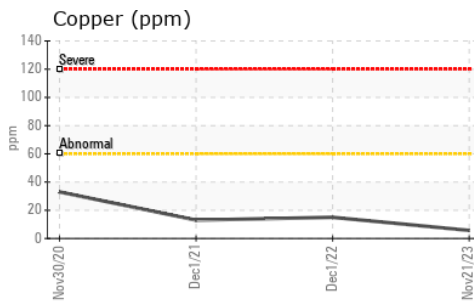
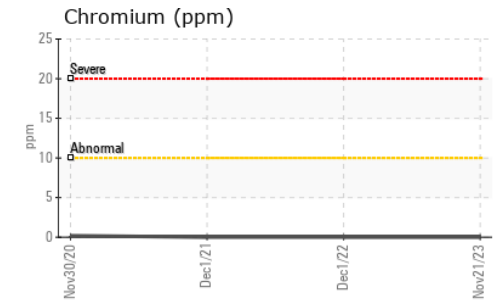
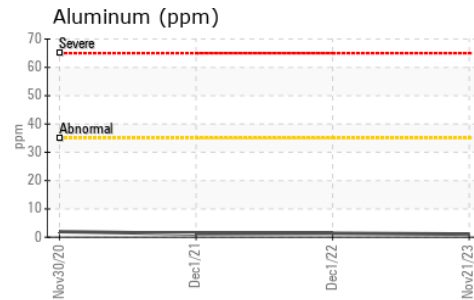
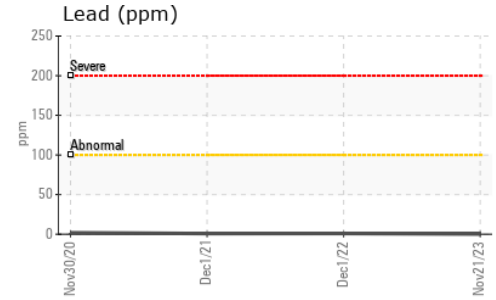
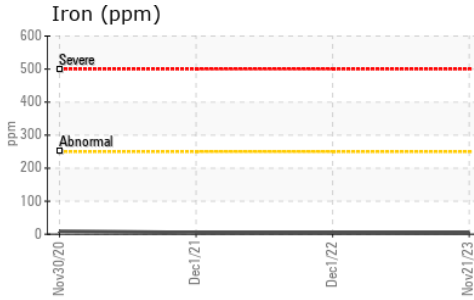
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
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Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG
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FLUID PROPERTIES		method	limit/base	current	history1	history2
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Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.8</b>	13.3	13.4
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GRAPHS						
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**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0836752      **Received** : 05 Jan 2024  
**Lab Number** : **02606710**      **Diagnosed** : 05 Jan 2024  
**Unique Number** : 5707796      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.