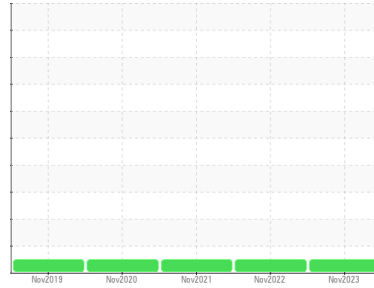




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**GR010**

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>WC0836749</b>	WC0709783	WC0634051
Sample Date	Client Info		<b>24 Nov 2023</b>	25 Nov 2022	29 Nov 2021
Machine Age	hrs	Client Info	<b>64</b>	58	34
Oil Age	hrs	Client Info	<b>6</b>	25	5
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>2</b>	2	1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<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>	2	1
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m)	>60	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
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>5</b>	26	29
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>5</b>	34	38
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>27</b>	119	138
Calcium	ppm	ASTM D5185(m)	3000	<b>2132</b>	2071	1926
Phosphorus	ppm	ASTM D5185(m)	1150	<b>836</b>	1001	934
Zinc	ppm	ASTM D5185(m)	1350	<b>937</b>	1060	1046
Sulfur	ppm	ASTM D5185(m)	4250	<b>3136</b>	3233	3054
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

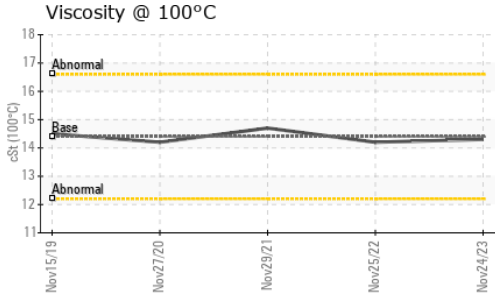
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>35	<b>2</b>	2	2
Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.0</b>	6.1	1.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>15.0</b>	16.6	5.4



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>8.5</b>	10.7	3.1

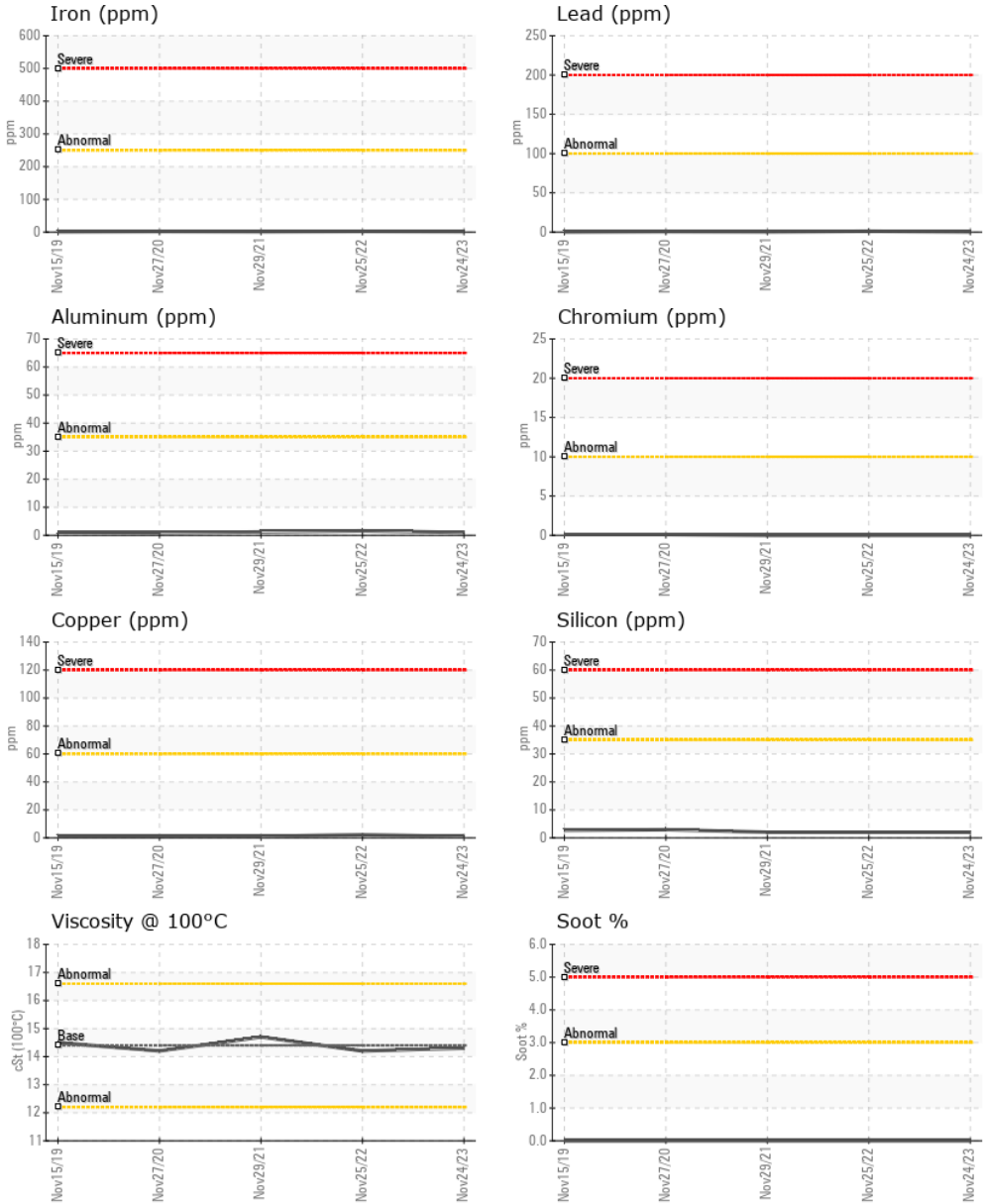
### VISUAL

	method	limit/base	current	history1	history2	
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

### FLUID PROPERTIES

	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.3</b>	14.2	14.7

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0836749 **Received** : 05 Jan 2024  
**Lab Number** : **02606673** **Diagnosed** : 05 Jan 2024  
**Unique Number** : 5707759 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**GENCARE SERVICES LTD.**  
 360 SOVEREIGN ROAD  
 LONDON, ON  
 CA N6M 1A8  
 Contact: Teresa Matthews  
 tmatthews@gencare.com  
 T: (519)659-7118  
 F: (519)451-1707

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.