



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**10003**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0890733</b>	WC0713495	WC0713520
Sample Date		Client Info		<b>09 Feb 2024</b>	16 Dec 2022	21 Oct 2022
Machine Age	hrs	Client Info		<b>5990</b>	2064	0
Oil Age	hrs	Client Info		<b>490</b>	500	0
Filter Age	hrs	Client Info		<b>490</b>	500	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>5</b>	5	6
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	1	1
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m)	>30	<b>2</b>	2	4
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

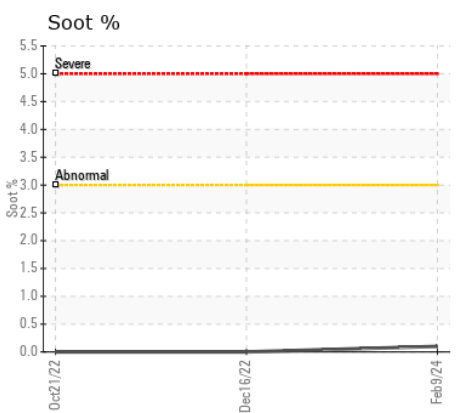
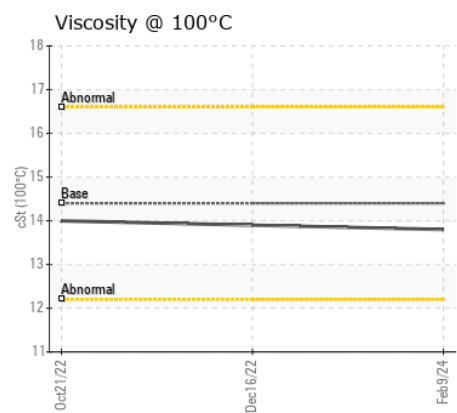
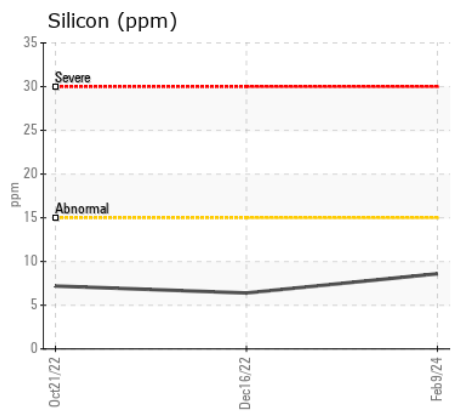
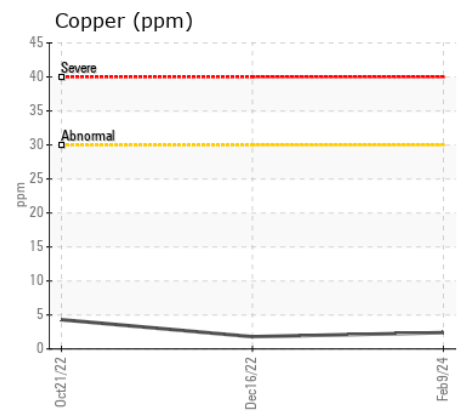
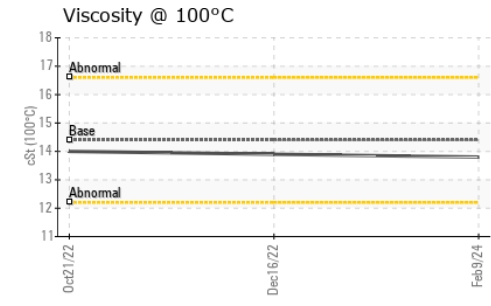
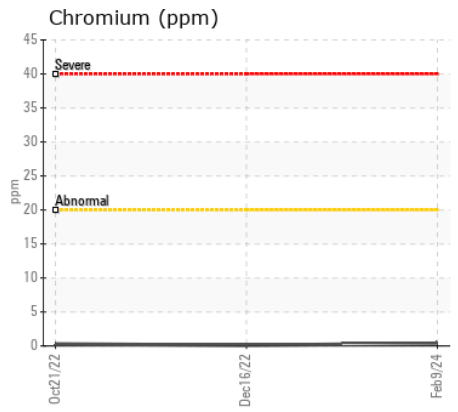
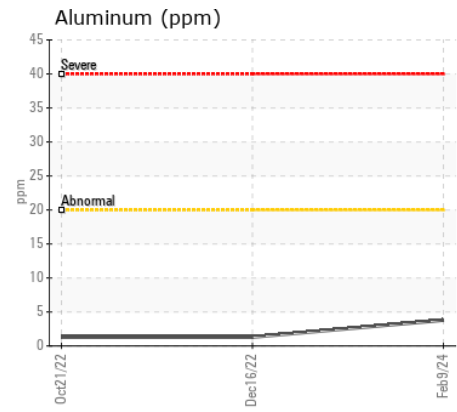
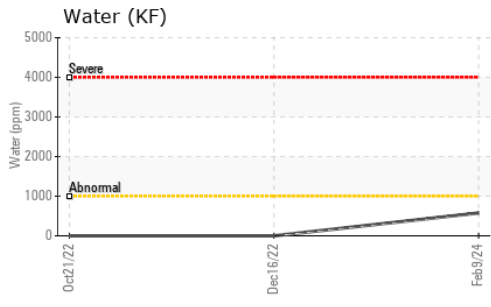
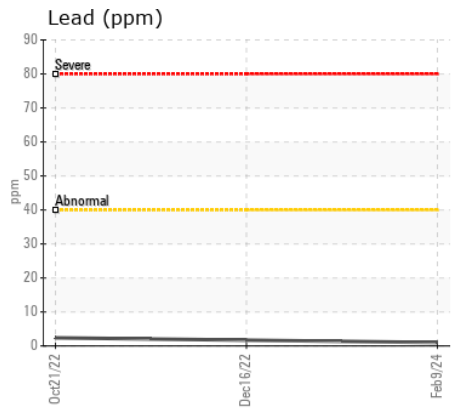
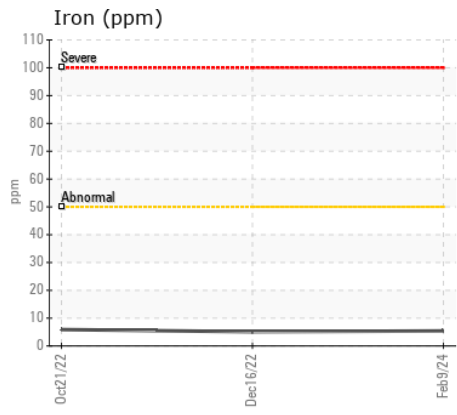
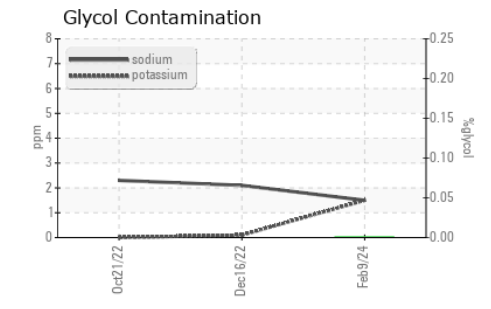
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>9</b>	6	7
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	0
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	%	ASTM D6304*	>0.1	<b>0.057</b>	---	---
ppm Water	ppm	ASTM D6304*	>1000	<b>577</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	8.2	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.6</b>	24.6	24.1
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>.2%</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)	250	<b>48</b>	28	21
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>120</b>	40	40
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>634</b>	513	532
Calcium	ppm	ASTM D5185(m)	3000	<b>1337</b>	1742	1763
Phosphorus	ppm	ASTM D5185(m)	1150	<b>737</b>	796	796
Zinc	ppm	ASTM D5185(m)	1350	<b>820</b>	870	884
Sulfur	ppm	ASTM D5185(m)	4250	<b>2920</b>	2160	2261
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.0</b>	22.6	22.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.8</b>	13.9	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0890733 **Received** : 20 Feb 2024  
**Lab Number** : 02616596 **Tested** : 20 Feb 2024  
**Unique Number** : 5733706 **Diagnosed** : 20 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF, Visual )

**C.G. EQUIPMENT**  
 7367 Wellington Rd. 30, Unit A  
 Guelph, ON  
 CA N0M 2T0  
 Contact: CG Equipment CG Guelph  
 cory@cgequipment.com  
 T: (519)826-0550  
 F: (519)837-2055

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.