



# OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id

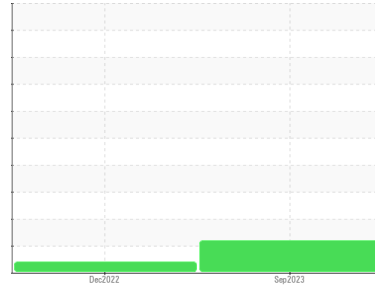
**608**

Component

**Diesel Engine**

Fluid

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



## DIAGNOSIS

### ▲ Recommendation

Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### ▲ Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

### Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0551921</b>	WC0716330	---
Sample Date	Client Info		<b>13 Sep 2023</b>	20 Dec 2022	---
Machine Age	hrs	Client Info	<b>957</b>	248	---
Oil Age	hrs	Client Info	<b>500</b>	248	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	0.8	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>7</b>	26	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>11</b>	11	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	3	---
Copper	ppm	ASTM D5185(m)	>330	<b>58</b>	135	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	<b>367</b>	207	---
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	4	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>944</b>	68	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	4	---
Magnesium	ppm	ASTM D5185(m)	450	<b>103</b>	238	---
Calcium	ppm	ASTM D5185(m)	3000	<b>851</b>	1621	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>201</b>	1045	---
Zinc	ppm	ASTM D5185(m)	1350	<b>260</b>	1107	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>1991</b>	3254	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>11</b>	13	---
Sodium	ppm	ASTM D5185(m)	>158	<b>4</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 285</b>	2	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	---

## INFRA-RED

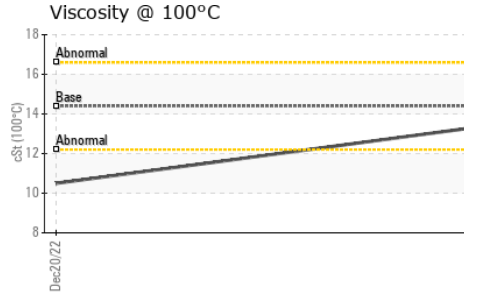
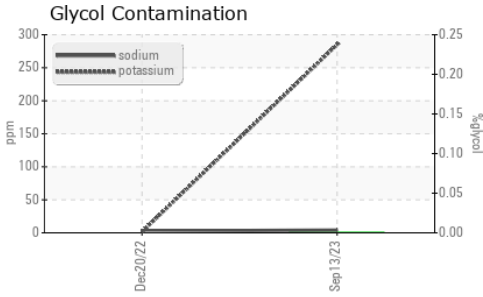
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.6</b>	8.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.5</b>	21.3	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.9</b>	16.3	---



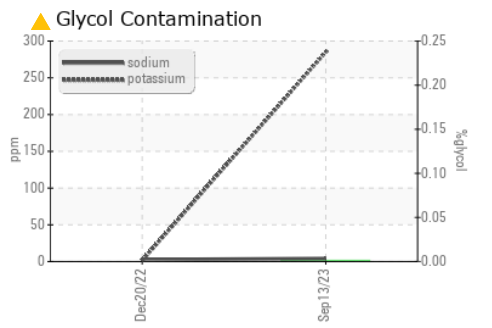
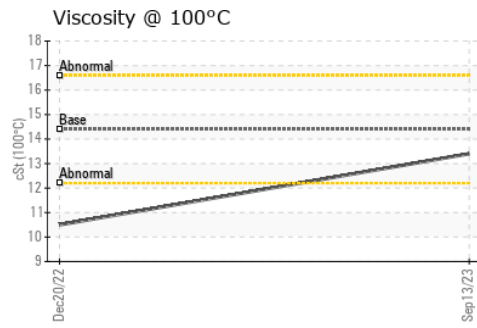
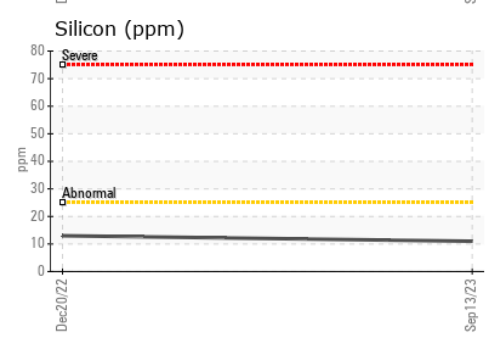
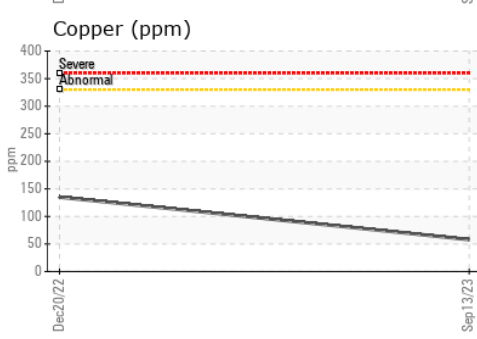
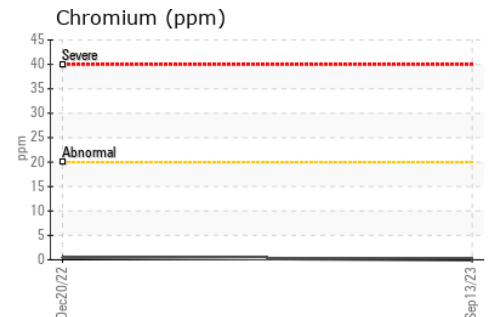
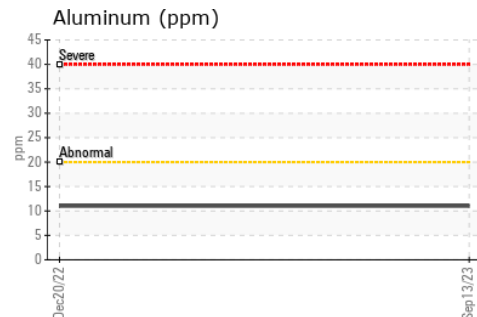
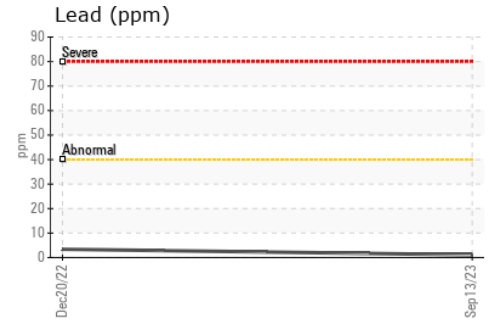
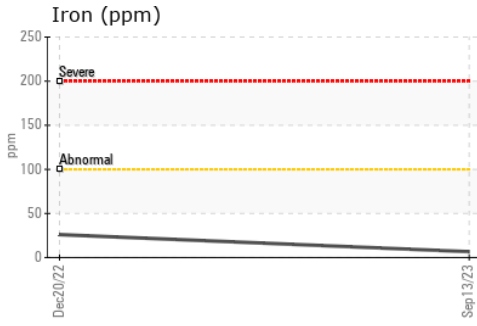
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.4	▲ 10.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0551921      **Received** : 12 Oct 2023  
**Lab Number** : 02588488      **Diagnosed** : 12 Oct 2023  
**Unique Number** : 5657554      **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**COLACEM CANADA INC**  
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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.