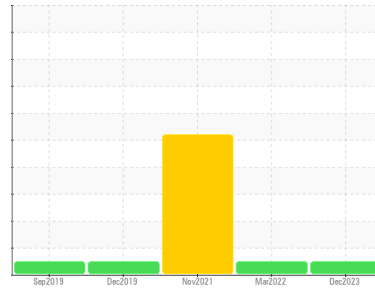




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**7295**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>WC0853053</b>	WC0654463	WC0624818
Sample Date	Client Info		<b>07 Dec 2023</b>	08 Mar 2022	03 Nov 2021
Machine Age	kms	Client Info	<b>214748</b>	173631	159700
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>NORMAL</b>	NORMAL	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<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)	>90	<b>41</b>	27	▲ 173
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	9
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>9</b>	8	22
Lead	ppm	ASTM D5185(m)	>40	<b>6</b>	5	17
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	4
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	3
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	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>33</b>	49	45
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>72</b>	4	8
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	450	<b>98</b>	691	717
Calcium	ppm	ASTM D5185(m)	3000	<b>1912</b>	1283	1338
Phosphorus	ppm	ASTM D5185(m)	1150	<b>915</b>	689	704
Zinc	ppm	ASTM D5185(m)	1350	<b>1027</b>	750	791
Sulfur	ppm	ASTM D5185(m)	4250	<b>3003</b>	2404	2279
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

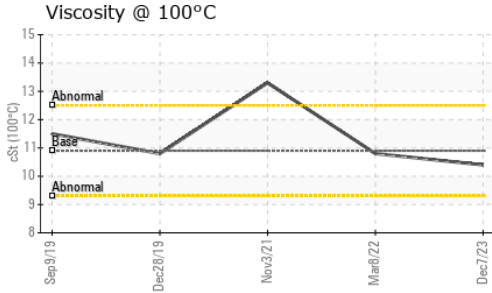
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	4	11
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	4
Potassium	ppm	ASTM D5185(m)	>20	<b>12</b>	12	32

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0.3</b>	0	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.0</b>	4.8	▲ 27.4
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>27.0</b>	15.0	▲ 46.1

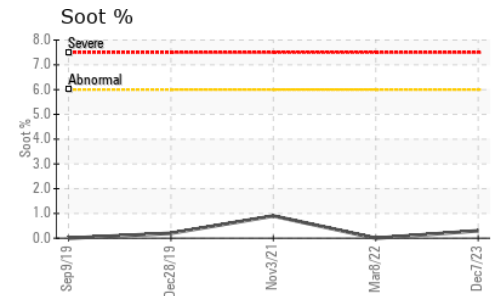
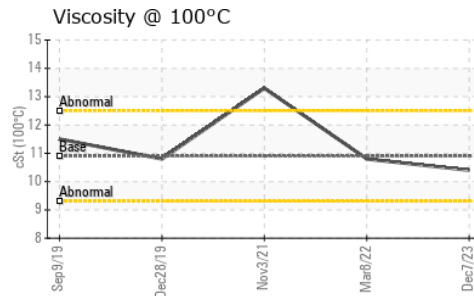
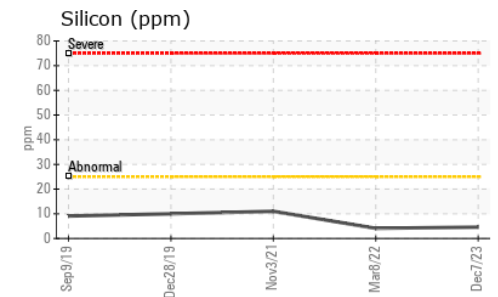
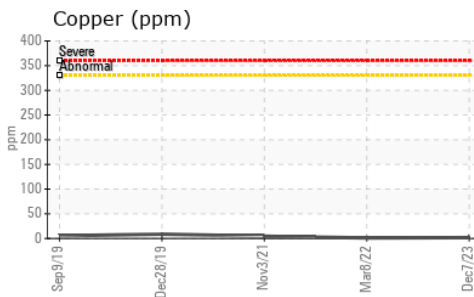
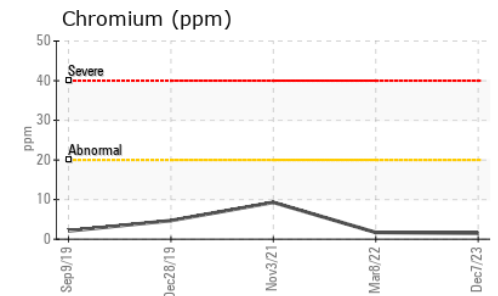
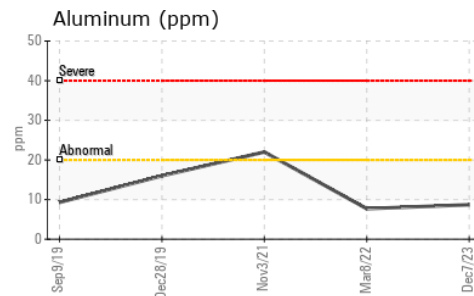
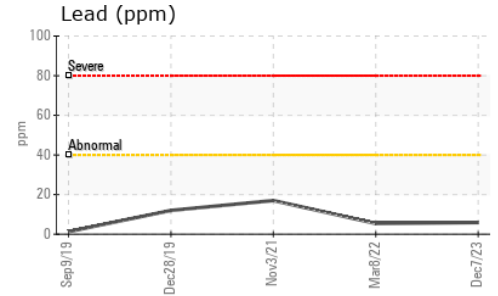
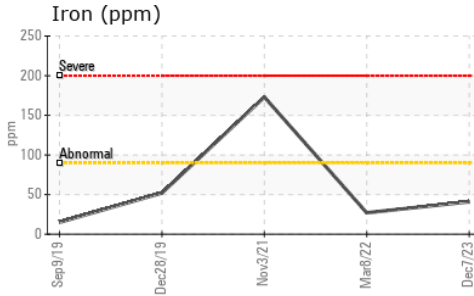


# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>26.8</b>	9.0	75.6
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)	10.9	<b>10.4</b>	10.8	13.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0853053 **Received** : 19 Jan 2024  
**Lab Number** : 02609837 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 5710923 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

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.

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