



# OIL ANALYSIS REPORT

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

Machine Id  
**NO UNIT WC0895423**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0895423</b>	---	---
Sample Date		Client Info		<b>08 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## WEAR

Aluminum ppm levels are abnormal. Piston wear is indicated.

Iron	ppm	ASTM D5185(m)	>100	<b>20</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>3</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>▲ 27</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>14</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

## CONTAMINATION

There is no indication of any contamination in the oil.

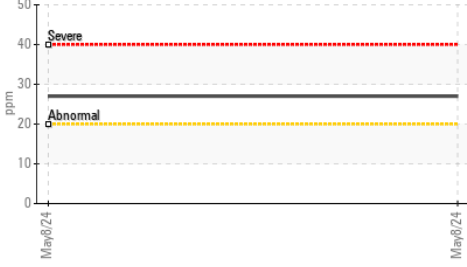
Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>32</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---	---
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.7</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.2</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

## FLUID CONDITION

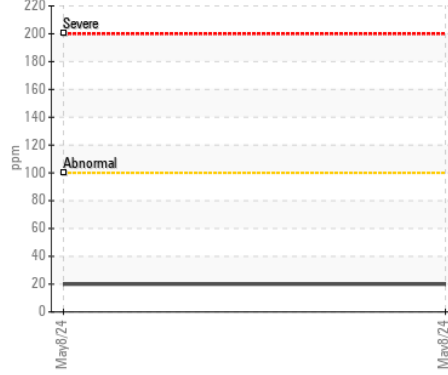
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		<b>19</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>34</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>40</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>511</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1792</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>765</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>907</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2098</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.4</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.7</b>	---	---

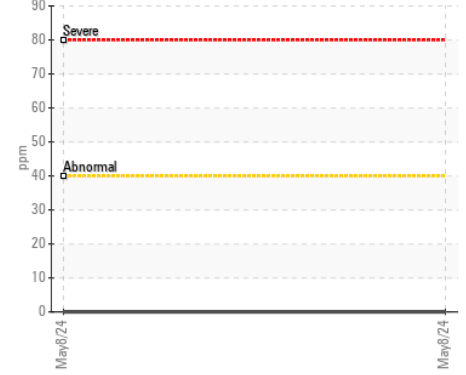
▲ Aluminum (ppm)



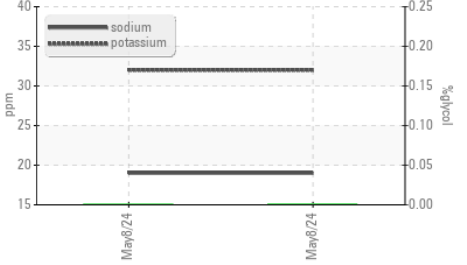
Iron (ppm)



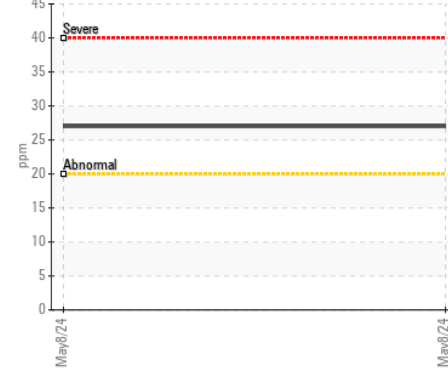
Lead (ppm)



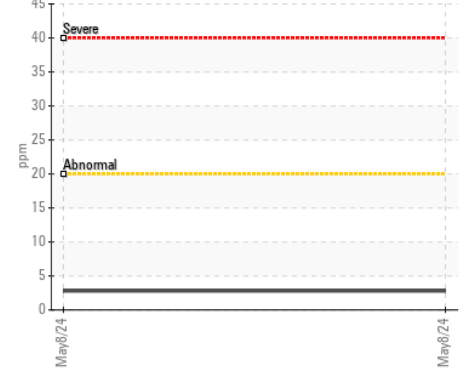
Glycol Contamination



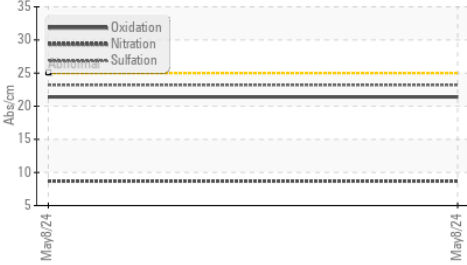
▲ Aluminum (ppm)



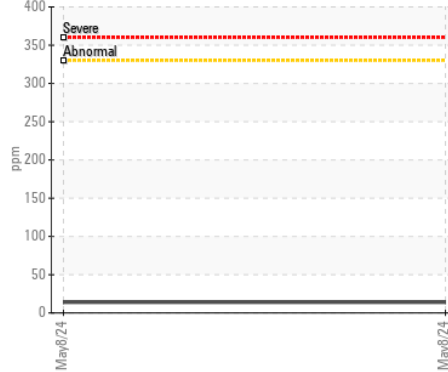
Chromium (ppm)



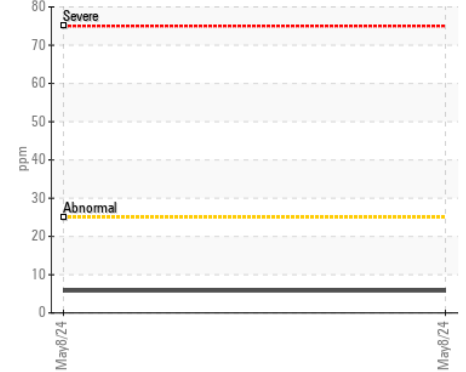
FT-IR (Direct Trend)



Copper (ppm)



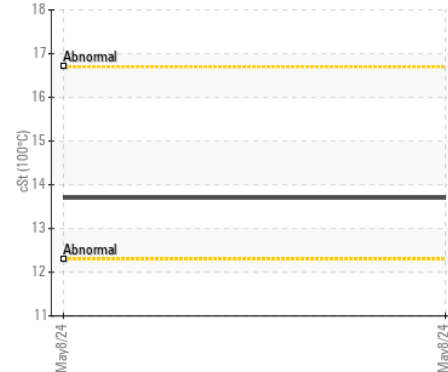
Silicon (ppm)



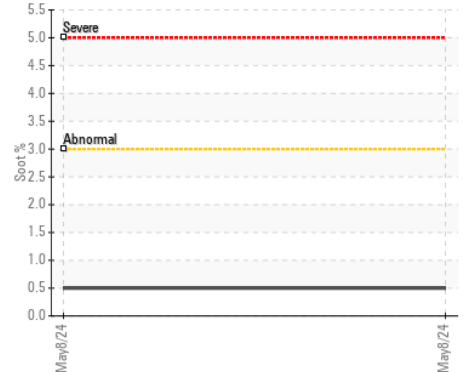
Viscosity @ 100°C



Viscosity @ 100°C



Soot %



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0895423 **Received** : 09 May 2024  
**Lab Number** : 02634281 **Tested** : 09 May 2024  
**Unique Number** : 5775434 **Diagnosed** : 10 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**OX FLEET CARE**  
 466 HIGHWAY 52  
 DUNDAS, ON  
 CA L9H 5E2

Contact: Robert Hughes  
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 T: (289)683-6037  
 F:

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.