



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**T211**  
 Component  
**Diesel Engine**  
 Fluid  
**INVENTORY EXPRESS 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0906431</b>	WC0852070	WC0790247
Sample Date		Client Info		<b>22 Apr 2024</b>	03 Nov 2023	31 Mar 2023
Machine Age	kms	Client Info		<b>187954</b>	122867	51080
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>34</b>	40	40
Chromium	ppm	ASTM D5185(m)	>20	<b>3</b>	4	2
Nickel	ppm	ASTM D5185(m)	>4	<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>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>22</b>	32	24
Lead	ppm	ASTM D5185(m)	>40	<b>4</b>	6	4
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	8	20
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	2	3
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

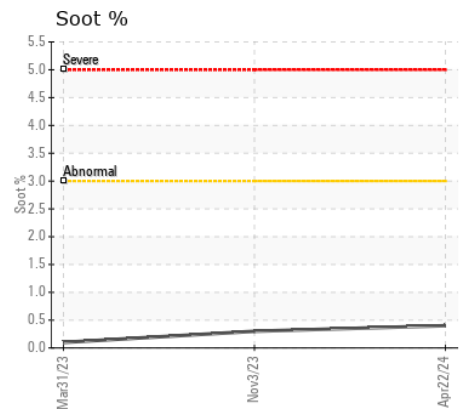
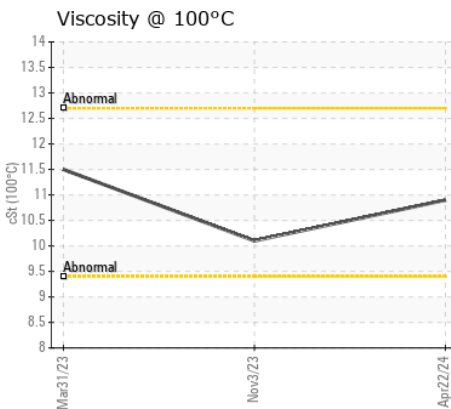
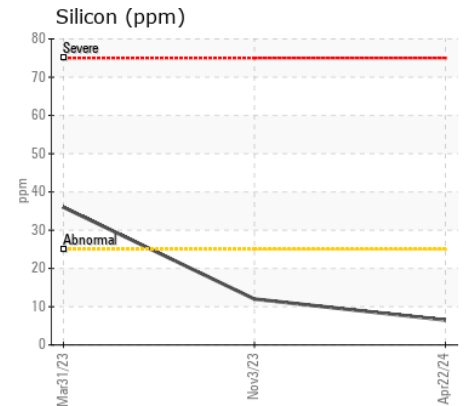
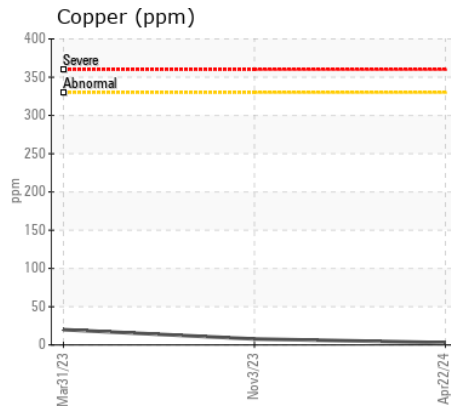
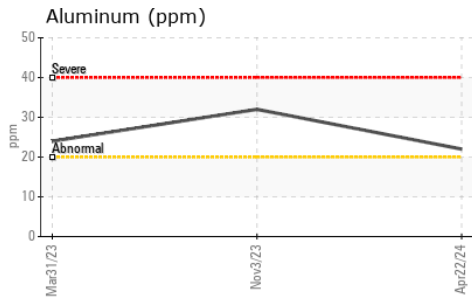
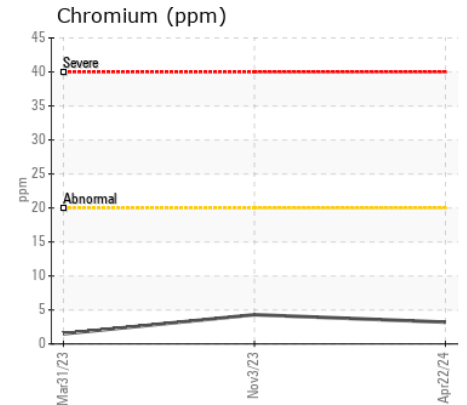
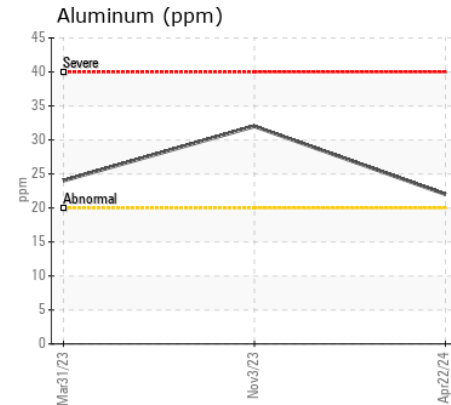
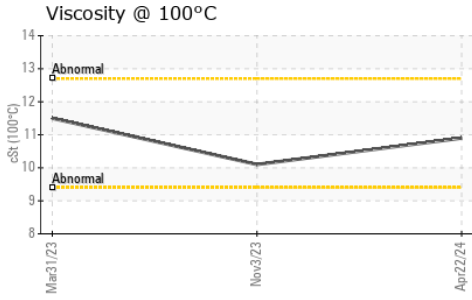
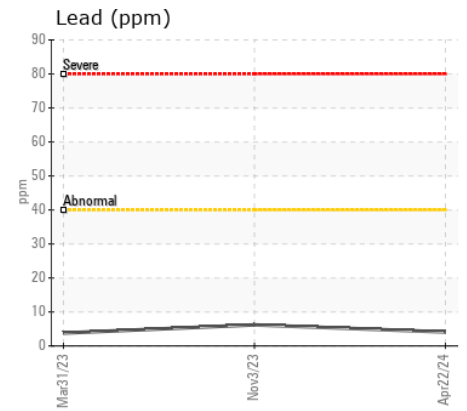
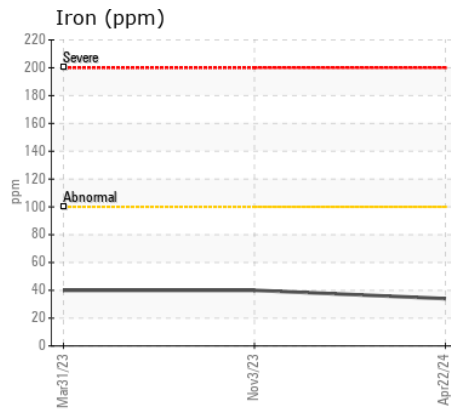
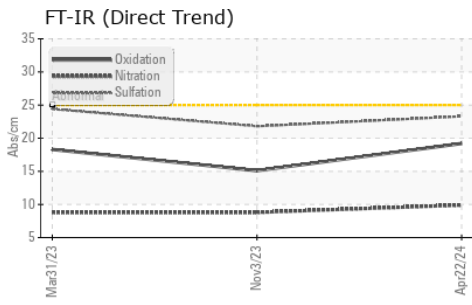
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	12	36
Potassium	ppm	ASTM D5185(m)	>20	<b>52</b>	82	75
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
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	8.8	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.3</b>	21.8	24.4
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	5
Boron	ppm	ASTM D5185(m)		<b>25</b>	19	52
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	5
Molybdenum	ppm	ASTM D5185(m)		<b>74</b>	79	64
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	6
Magnesium	ppm	ASTM D5185(m)		<b>199</b>	361	453
Calcium	ppm	ASTM D5185(m)		<b>1836</b>	1496	1828
Phosphorus	ppm	ASTM D5185(m)		<b>942</b>	835	1009
Zinc	ppm	ASTM D5185(m)		<b>1130</b>	963	1167
Sulfur	ppm	ASTM D5185(m)		<b>2577</b>	2421	2531
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.2</b>	15.1	18.3
Visc @ 100°C	cSt	ASTM D7279(m)		<b>10.9</b>	10.1	11.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0906431 **Received** : 26 Apr 2024  
**Lab Number** : 02631616 **Tested** : 26 Apr 2024  
**Unique Number** : 5772769 **Diagnosed** : 26 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**Zavcor Trucking Limited**  
 3650 Eagle Street  
 Stevensville, ON  
 CA L0S 1S0  
 Contact: Kirk Zavitz  
 kirezav@zavcor.com

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.

T:  
F: