



# OIL ANALYSIS REPORT

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

Machine Id  
**T209**  
 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>WC0940441</b>	WC0852079	WC0806834
Sample Date		Client Info		<b>26 Apr 2024</b>	13 Dec 2023	29 Jun 2023
Machine Age	kms	Client Info		<b>202843</b>	140855	66432
Oil Age	kms	Client Info		<b>61988</b>	0	0
Filter Age	kms	Client Info		<b>61988</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>26</b>	29	40
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	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>10</b>	11	8
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	5	3
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	6	19
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>VLITE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

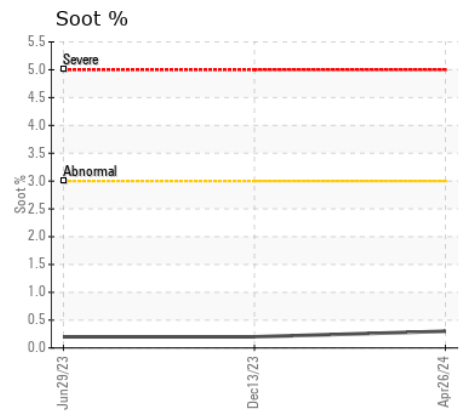
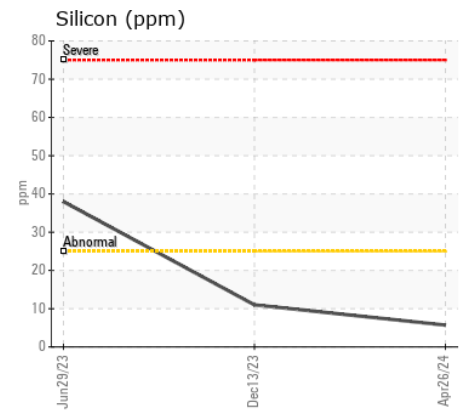
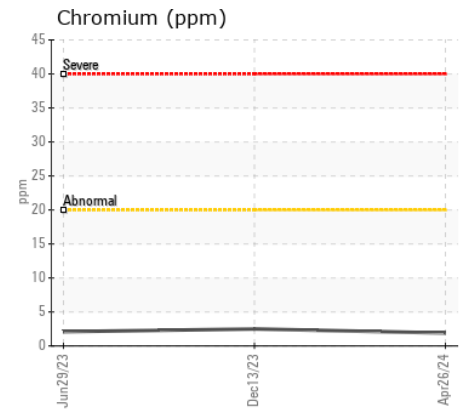
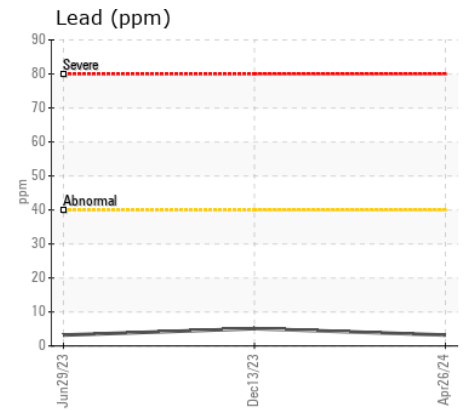
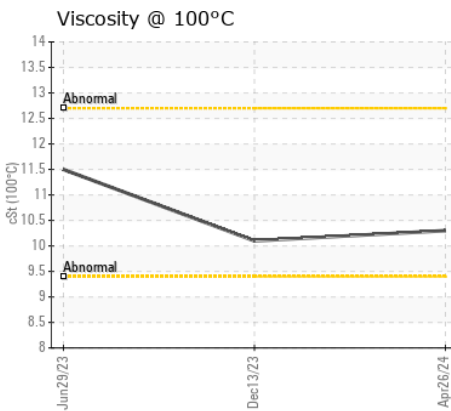
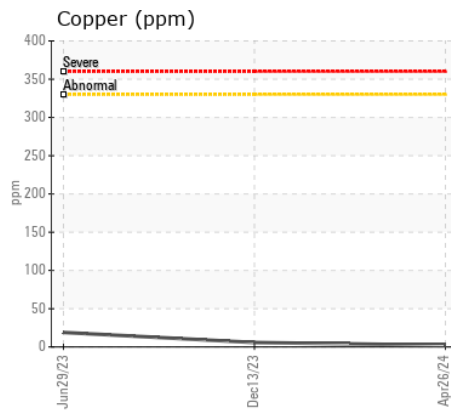
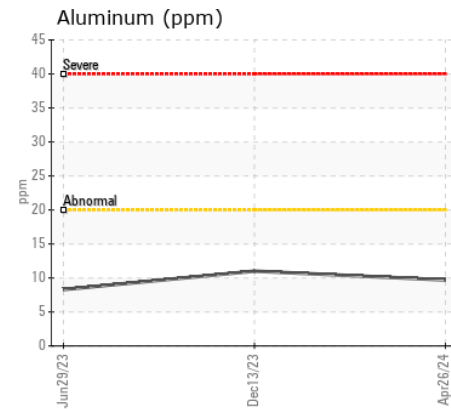
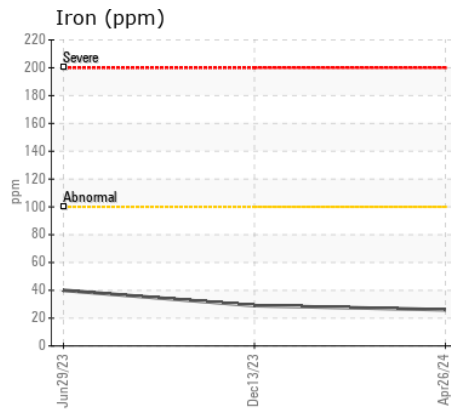
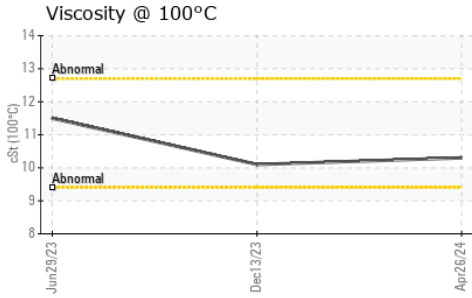
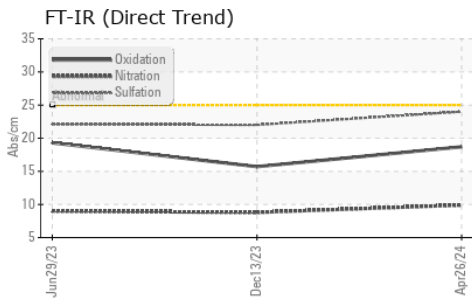
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	11	38
Potassium	ppm	ASTM D5185(m)	>20	<b>17</b>	15	22
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>0.3</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	8.8	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.0</b>	22.0	22.1
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
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>2</b>	2	4
Boron	ppm	ASTM D5185(m)		<b>15</b>	17	44
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	5
Molybdenum	ppm	ASTM D5185(m)		<b>72</b>	76	62
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	5
Magnesium	ppm	ASTM D5185(m)		<b>371</b>	392	460
Calcium	ppm	ASTM D5185(m)		<b>1642</b>	1519	1779
Phosphorus	ppm	ASTM D5185(m)		<b>955</b>	798	1019
Zinc	ppm	ASTM D5185(m)		<b>1115</b>	956	1185
Sulfur	ppm	ASTM D5185(m)		<b>2520</b>	2479	2350
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.7</b>	15.7	19.3
Visc @ 100°C	cSt	ASTM D7279(m)		<b>10.3</b>	10.1	11.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0940441 **Received** : 30 May 2024  
**Lab Number** : 02638987 **Tested** : 30 May 2024  
**Unique Number** : 5788149 **Diagnosed** : 30 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**Zavcor Trucking Limited**  
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 kizrav@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.

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F: