



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id  
**9500**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0924045</b>	WC0796395	WC0654330
Sample Date		Client Info		<b>18 Apr 2024</b>	16 Apr 2023	30 Jan 2022
Machine Age	kms	Client Info		<b>231417</b>	191569	0
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>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>130	<b>16</b>	17	22
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	3
Lead	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3
Copper	ppm	ASTM D5185(m)	>125	<b>4</b>	7	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
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

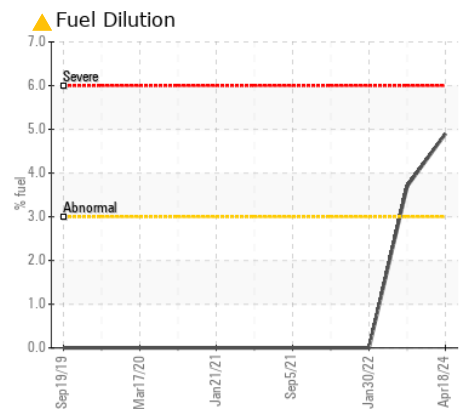
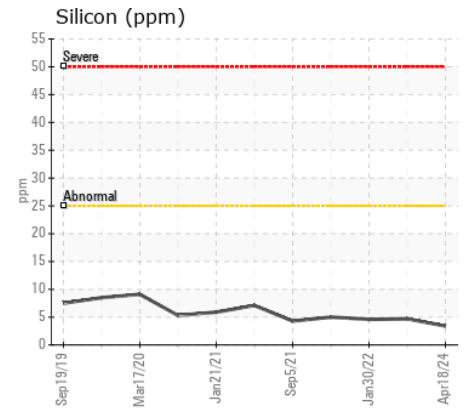
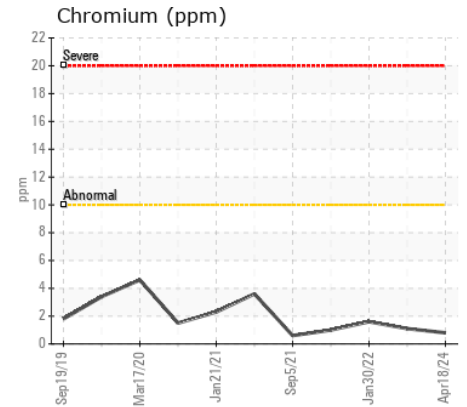
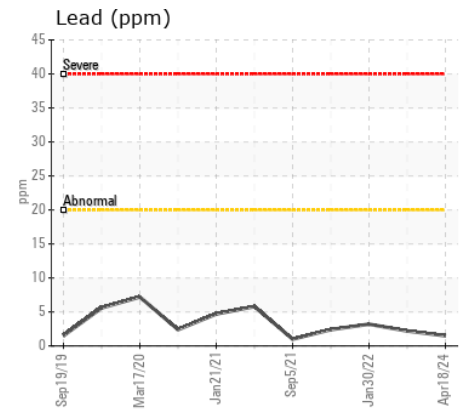
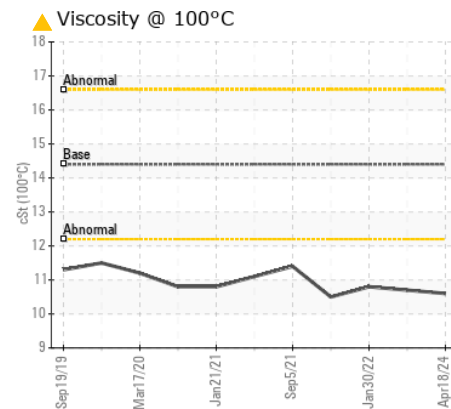
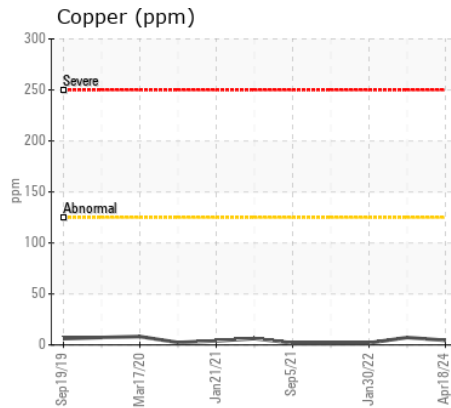
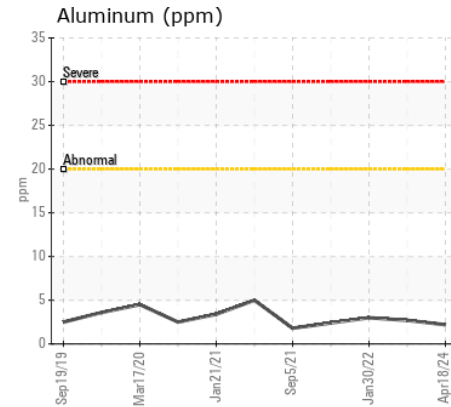
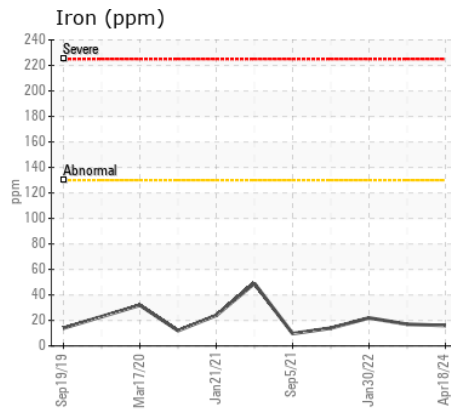
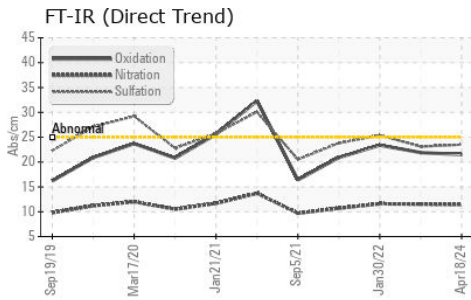
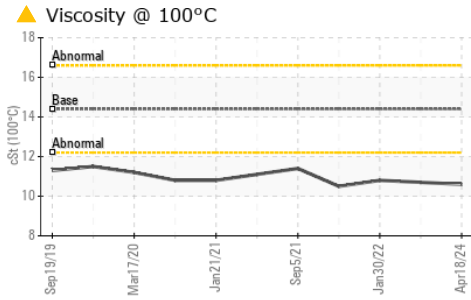
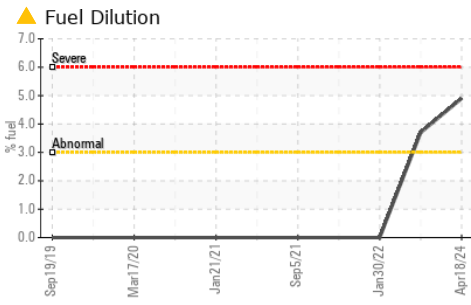
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	5	5
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	4	5
Fuel	%	ASTM D7593*	>3.0	<b>▲ 4.9</b>	<b>▲ 3.7</b>	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	ASTM D7844*	>6	<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.4</b>	11.5	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.5</b>	23.1	25.4
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	.2%

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	3	4
Boron	ppm	ASTM D5185(m)	250	<b>39</b>	44	35
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>1</b>	3	3
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>701</b>	718	713
Calcium	ppm	ASTM D5185(m)	3000	<b>1275</b>	1365	1319
Phosphorus	ppm	ASTM D5185(m)	1150	<b>655</b>	733	704
Zinc	ppm	ASTM D5185(m)	1350	<b>731</b>	763	772
Sulfur	ppm	ASTM D5185(m)	4250	<b>2335</b>	2517	2468
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.5</b>	21.9	23.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>▲ 10.6</b>	<b>▲ 10.7</b>	10.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0924045 **Received** : 29 Apr 2024  
**Lab Number** : 02631805 **Tested** : 30 Apr 2024  
**Unique Number** : 5772958 **Diagnosed** : 30 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel, Visual )

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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.