



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[44952762]**  
 Machine Id  
**9755**  
 Component  
**Diesel Engine**  
 Fluid  
**SAE 10W30 (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 Metal levels are typical for a new component breaking in.

**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>WC0924060</b>	---	---
Sample Date	Client Info		<b>09 Jun 2024</b>	---	---
Machine Age	kms Client Info		<b>54423</b>	---	---
Oil Age	kms Client Info		<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	>90	<b>23</b>	---	---
Chromium	ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m)	>20	<b>5</b>	---	---
Lead	ppm ASTM D5185(m)	>40	<b>0</b>	---	---
Copper	ppm ASTM D5185(m)	>330	<b>1</b>	---	---
Tin	ppm ASTM D5185(m)	>15	<b>0</b>	---	---
Antimony	ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		<b>42</b>	---	---
Barium	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m)		<b>2</b>	---	---
Manganese	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185(m)		<b>708</b>	---	---
Calcium	ppm ASTM D5185(m)		<b>1292</b>	---	---
Phosphorus	ppm ASTM D5185(m)		<b>652</b>	---	---
Zinc	ppm ASTM D5185(m)		<b>752</b>	---	---
Sulfur	ppm ASTM D5185(m)		<b>2413</b>	---	---
Lithium	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

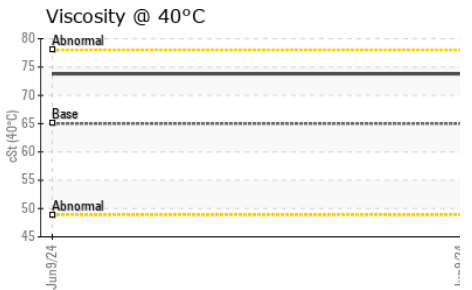
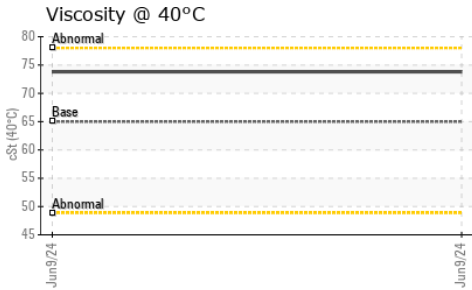
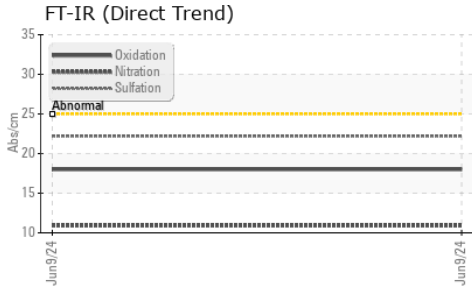
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>25	<b>4</b>	---	---
Sodium	ppm ASTM D5185(m)	>228	<b>2</b>	---	---
Potassium	ppm ASTM D5185(m)	>20	<b>10</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	>6	<b>0.6</b>	---	---
Nitration	Abs/cm ASTM D7624*	>20	<b>10.9</b>	---	---
Sulfation	Abs./1mm ASTM D7415*	>30	<b>22.2</b>	---	---



# OIL ANALYSIS REPORT

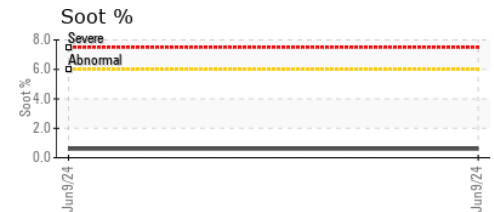
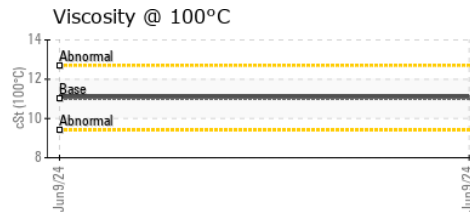
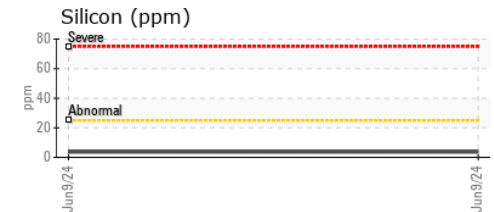
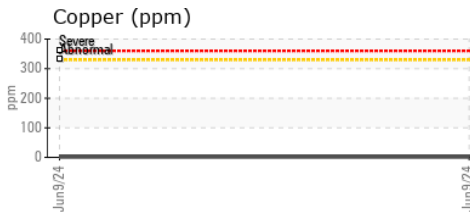
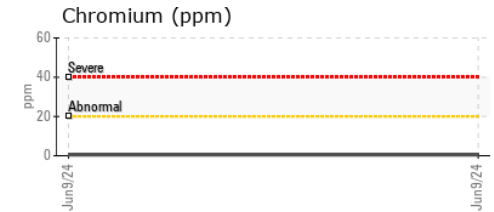
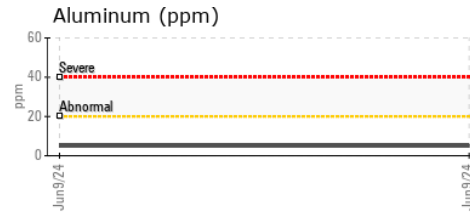
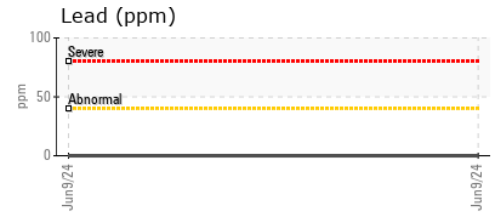
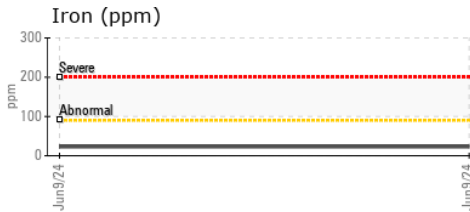


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.0</b>	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
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>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	65.0	<b>73.8</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	<b>11.1</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	161	<b>140</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0924060      **Received** : 25 Jun 2024  
**Lab Number** : **02643917**      **Tested** : 25 Jun 2024  
**Unique Number** : 5801456      **Diagnosed** : 25 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

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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