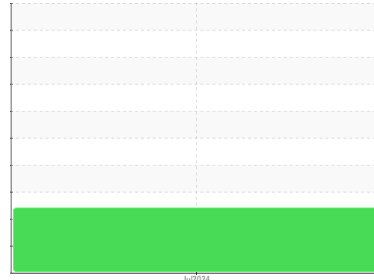


# OIL ANALYSIS REPORT



Area  
**[307286]**  
Machine Id  
**CATERPILLAR SYC03349**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 15W40 (--- GAL)**

Sample Rating Trend



**DIAGNOSIS**

**▲ Recommendation**  
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

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

**▲ Contamination**  
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

**▲ Fluid Condition**  
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>WA0021466</b>	---	---
Sample Date	Client Info	<b>05 Jul 2024</b>	---	---
Machine Age	hrs	Client Info	<b>335</b>	---
Oil Age	hrs	Client Info	<b>75</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>SEVERE</b>	---	---

**CONTAMINATION** method limit/base current history1 history2

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)	>100	<b>4</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</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>1</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>56</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>884</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>956</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1087</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1100</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2528</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

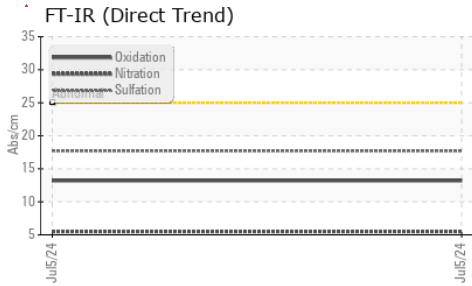
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---
Fuel	%	ASTM D7593*	>5	<b>▲ 8.1</b>	---	---

**INFRA-RED** method limit/base current history1 history2

Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.5</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>17.7</b>	---	---

# OIL ANALYSIS REPORT

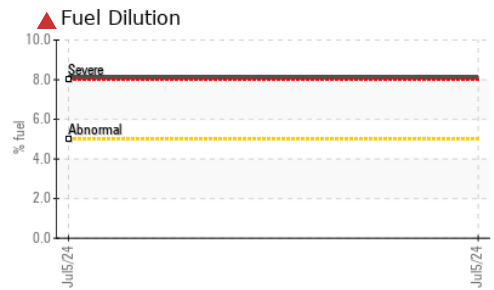
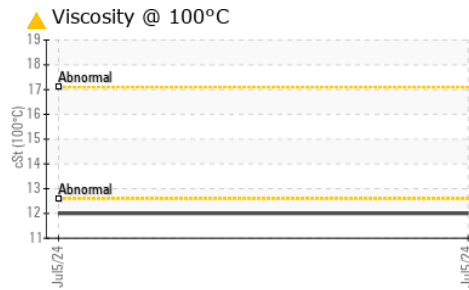
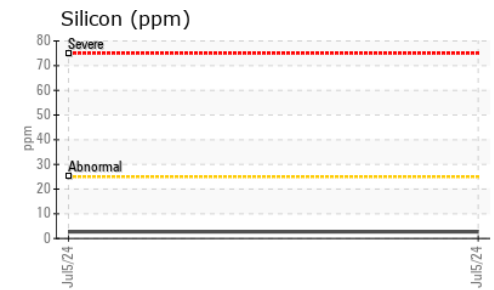
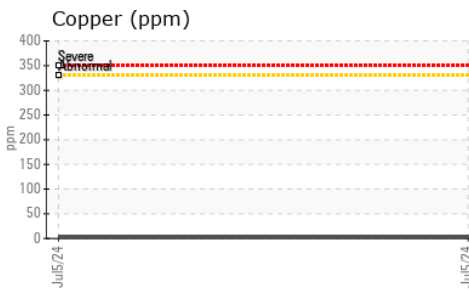
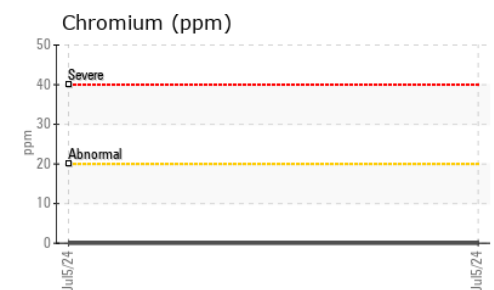
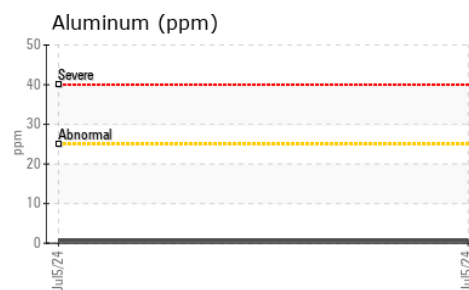
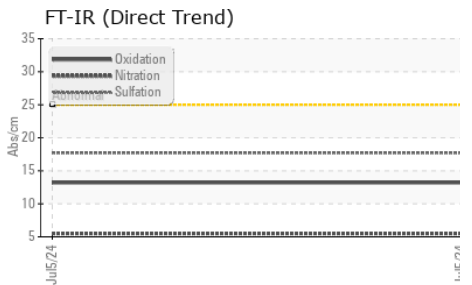
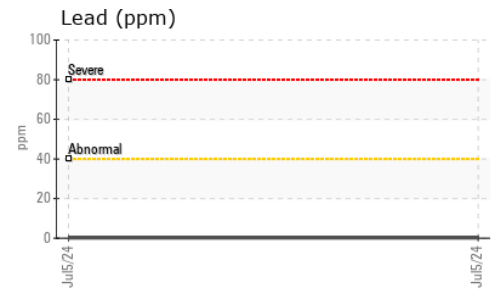
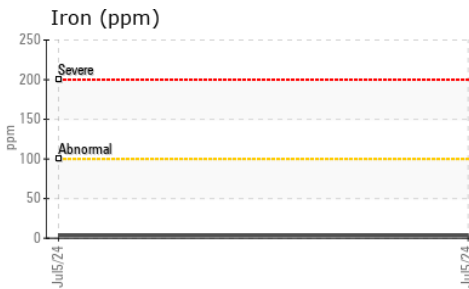
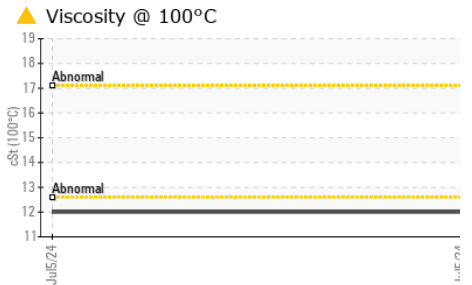


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	13.2	---

VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	▲ 12.0	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021466 **Received** : 16 Jul 2024  
**Lab Number** : 02648056 **Tested** : 17 Jul 2024  
**Unique Number** : 5813608 **Diagnosed** : 17 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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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