



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CATERPILLAR 349FL EX8124 (S/N BZ220478)**  
 Component  
**Diesel Engine**  
 Fluid  
**DURALENE Dura-Max Xtreme 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>DC0030111</b>	---	---
Sample Date	Client Info		<b>30 Oct 2023</b>	---	---
Machine Age	hrs Client Info		<b>2944</b>	---	---
Oil Age	hrs Client Info		<b>173</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	<b>7</b>	---	---
Chromium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	>2	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	>2	<b>0</b>	---	---
Silver	ppm ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>25	<b>1</b>	---	---
Lead	ppm ASTM D5185m	>40	<b>1</b>	---	---
Copper	ppm ASTM D5185m	>330	<b>6</b>	---	---
Tin	ppm ASTM D5185m	>15	<b>&lt;1</b>	---	---
Vanadium	ppm ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		<b>54</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>52</b>	---	---
Manganese	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m		<b>488</b>	---	---
Calcium	ppm ASTM D5185m		<b>1791</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>918</b>	---	---
Zinc	ppm ASTM D5185m		<b>1166</b>	---	---
Sulfur	ppm ASTM D5185m		<b>3399</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>6</b>	---	---
Sodium	ppm ASTM D5185m		<b>2</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>0</b>	---	---

## INFRA-RED

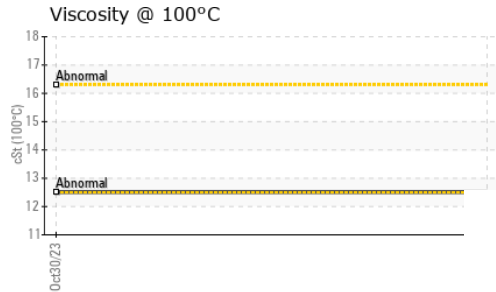
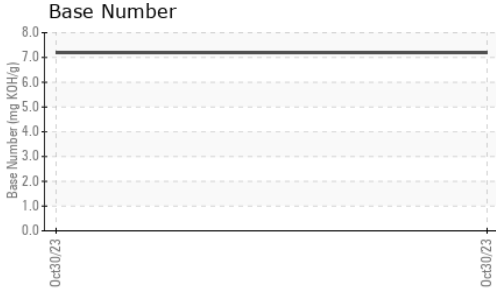
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	<b>0.1</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>7.3</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>21.2</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>18.3</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>7.20</b>	---	---



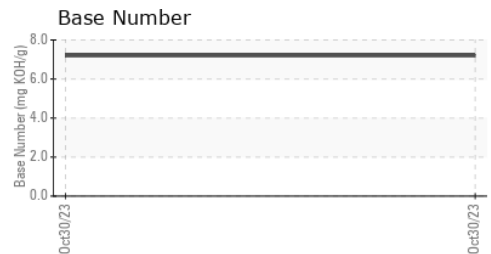
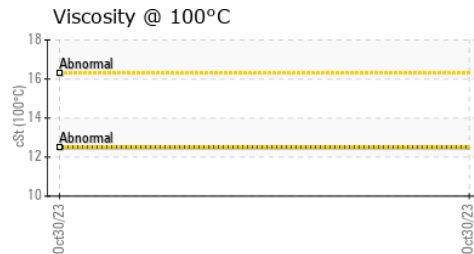
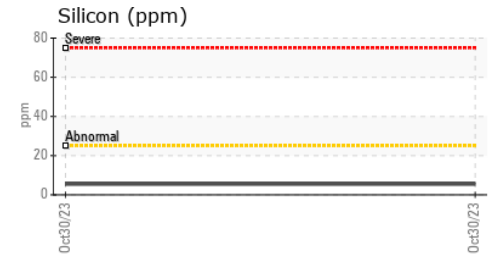
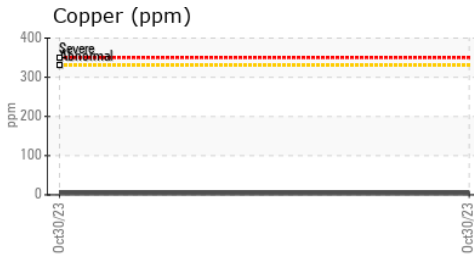
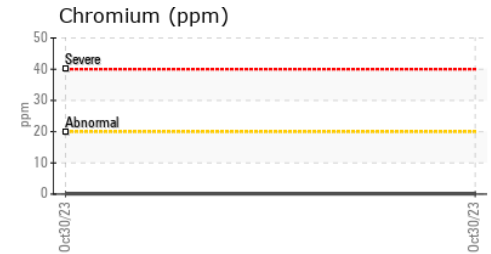
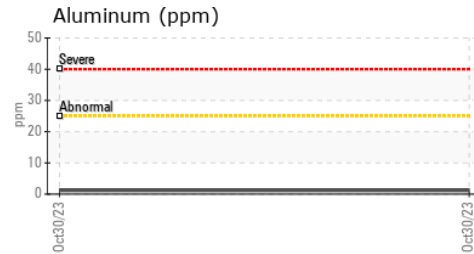
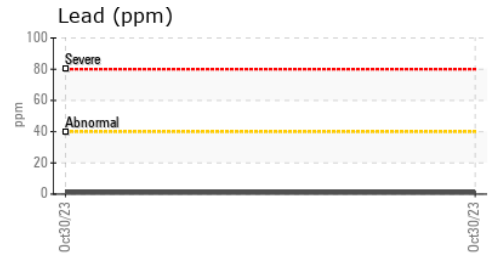
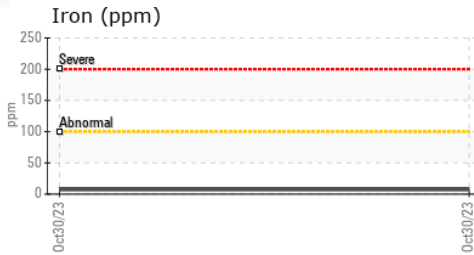
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
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 D445	12.5	---	---

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0030111 **Received** : 31 Oct 2023  
**Lab Number** : 05995111 **Diagnosed** : 01 Nov 2023  
**Unique Number** : 10723471 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)