

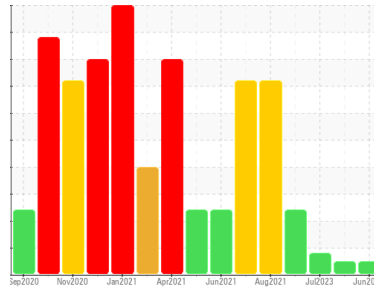


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 374FL 8398 (S/N XWL00242)**  
 Component  
**Left Final Drive**  
 Fluid  
**TDTO FLUID SAE 30 (--- GAL)**

Sample Rating Trend



**NORMAL**



## 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

Confirm oil type. 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>WC0899186</b>	WC0879314	WC0831259
Sample Date	Client Info		<b>07 Jun 2024</b>	27 Feb 2024	24 Jul 2023
Machine Age	hrs	Client Info	<b>2095</b>	1619	7587
Oil Age	hrs	Client Info	<b>512</b>	1027	604
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ATTENTION

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>800	<b>&lt;1</b>	54	83
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>2</b>	0	2
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	48	43
Tin	ppm	ASTM D5185m	>8	<b>0</b>	1	<1
Antimony	ppm	ASTM D5185m	>50	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	37	<b>156</b>	140	0
Barium	ppm	ASTM D5185m	7	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	2
Manganese	ppm	ASTM D5185m		<b>0</b>	2	3
Magnesium	ppm	ASTM D5185m	40	<b>&lt;1</b>	0	13
Calcium	ppm	ASTM D5185m	2650	<b>59</b>	797	3189
Phosphorus	ppm	ASTM D5185m	1050	<b>353</b>	537	1064
Zinc	ppm	ASTM D5185m	1075	<b>19</b>	309	1349
Sulfur	ppm	ASTM D5185m	5750	<b>2099</b>	3864	9570

## CONTAMINANTS

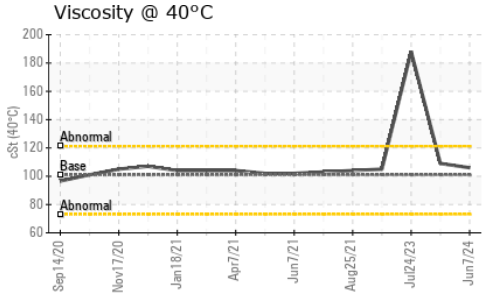
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>400	<b>5</b>	5	7
Sodium	ppm	ASTM D5185m		<b>0</b>	3	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2

## VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



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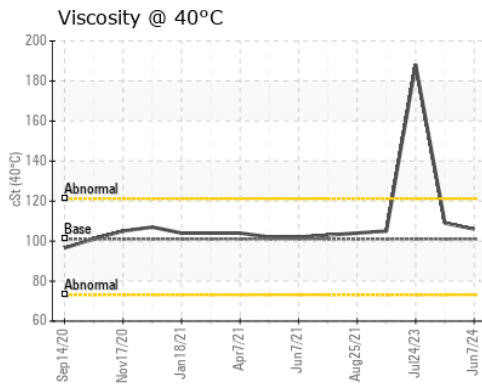
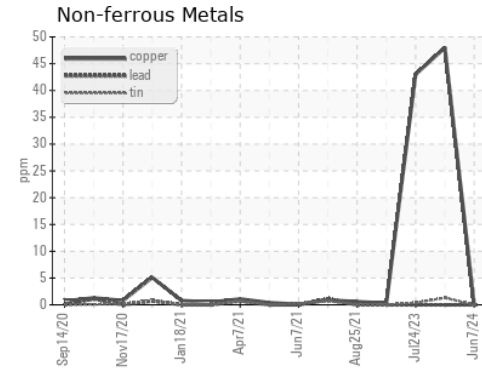
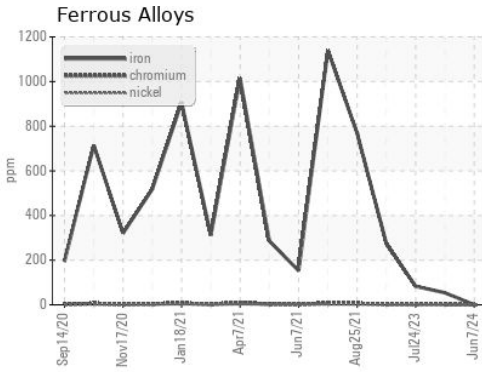
### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	101	<b>106</b>	109	188

### SAMPLE IMAGES

method	limit/base	current	history1	history2	
Color			no image	no image	no image
Bottom			no image	no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0899186  
**Lab Number** : **06213908**  
**Unique Number** : 11086772  
**Test Package** : CONST  
**Received** : 18 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 20 Jun 2024 - Don Baldrige

**TRADER CONSTRUCTION CO.**  
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 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
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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)