

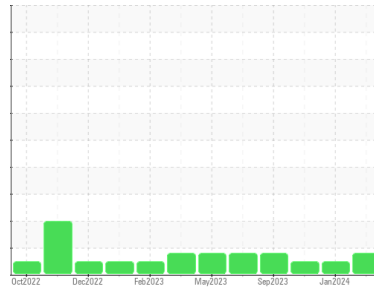


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 374 10553 (S/N TNX10028)**  
 Component  
**Left Final Drive**  
 Fluid  
**TDTO FLUID SAE 30 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
 The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 The copper level is abnormal. All other component wear rates are normal.

**Contamination**  
 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>WC0913264</b>	WC0888233	WC0879387
Sample Date	Client Info		<b>27 May 2024</b>	29 Jan 2024	28 Nov 2023
Machine Age	hrs	Client Info	<b>8221</b>	7387	6338
Oil Age	hrs	Client Info	<b>834</b>	1049	777
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## 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>119</b>	98	114
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	1	2
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	5	5
Titanium	ppm	ASTM D5185m	>15	<b>2</b>	1	1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>23</b>	12	14
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>▲ 133</b>	52	65
Tin	ppm	ASTM D5185m	>8	<b>4</b>	2	2
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>114</b>	164	168
Barium	ppm	ASTM D5185m	7	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>14</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	2
Magnesium	ppm	ASTM D5185m	40	<b>92</b>	1	<1
Calcium	ppm	ASTM D5185m	2650	<b>1747</b>	44	70
Phosphorus	ppm	ASTM D5185m	1050	<b>748</b>	315	321
Zinc	ppm	ASTM D5185m	1075	<b>626</b>	0	14
Sulfur	ppm	ASTM D5185m	5750	<b>3704</b>	1905	1644

## CONTAMINANTS

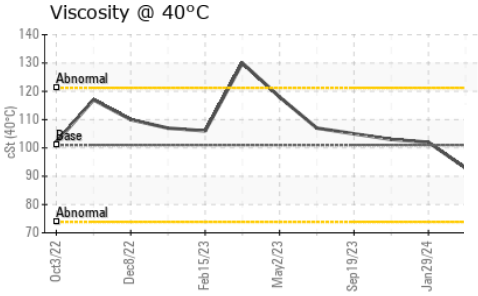
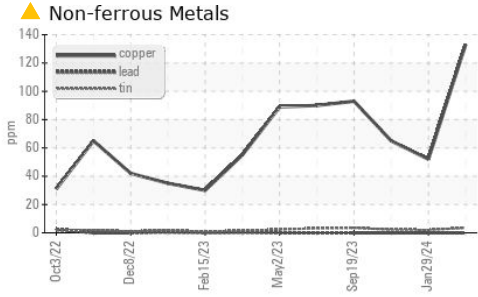
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>400	<b>133</b>	66	79
Sodium	ppm	ASTM D5185m		<b>4</b>	0	3
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	4	3

## VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>MODER</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



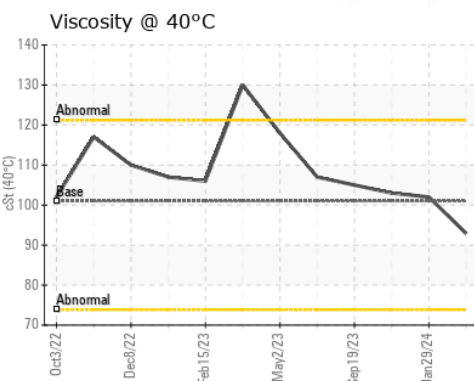
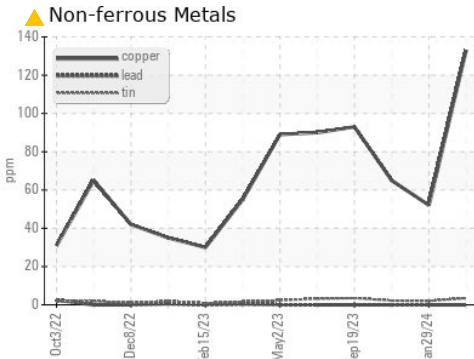
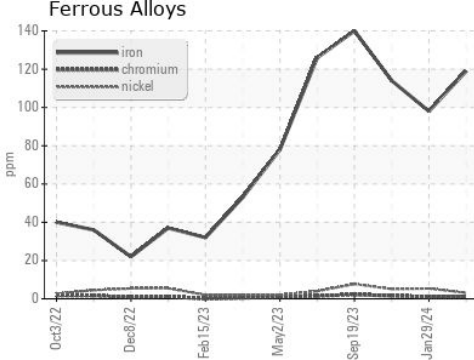
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 101	<b>92.9</b>	102	103

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			<i>no image</i>	<i>no image</i>	<i>no image</i>
Bottom			<i>no image</i>	<i>no image</i>	<i>no image</i>

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0913264      **Received** : 31 May 2024  
**Lab Number** : **06197123**      **Tested** : 03 Jun 2024  
**Unique Number** : 11059246      **Diagnosed** : 04 Jun 2024 - Don Baldrige  
**Test Package** : CONST

**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)