



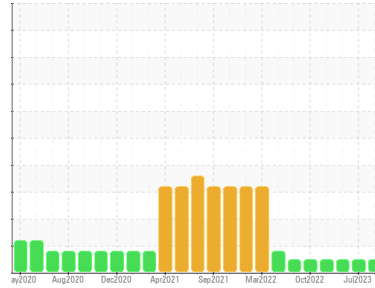
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**CATERPILLAR 374 f 8353 (S/N XWL00197)**  
 Component  
**Hydraulic System**  
 Fluid  
**TDH FLUID SAE 70W80 (--- 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. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0837171</b>	WC0816295	WC0816161
Sample Date	Client Info		<b>15 Aug 2023</b>	03 Jul 2023	23 May 2023
Machine Age	hrs	Client Info	<b>11784</b>	11522	11327
Oil Age	hrs	Client Info	<b>11784</b>	11522	11327
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>27</b>	27	29
Chromium	ppm	ASTM D5185m >10	<b>4</b>	4	4
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>9</b>	8	7
Lead	ppm	ASTM D5185m >10	<b>1</b>	1	1
Copper	ppm	ASTM D5185m >75	<b>12</b>	12	12
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 10	<b>71</b>	81	76
Barium	ppm	ASTM D5185m 10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 10	<b>3</b>	3	3
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 100	<b>46</b>	42	46
Calcium	ppm	ASTM D5185m 3500	<b>2682</b>	2720	2730
Phosphorus	ppm	ASTM D5185m 1150	<b>990</b>	1053	1049
Zinc	ppm	ASTM D5185m 1150	<b>1253</b>	1276	1281
Sulfur	ppm	ASTM D5185m 5000	<b>4195</b>	3916	4139

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>23</b>	22	22
Sodium	ppm	ASTM D5185m	<b>6</b>	5	5
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	4

### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>934</b>	413	717
Particles >6µm	ASTM D7647	>1300	<b>240</b>	97	155
Particles >14µm	ASTM D7647	>160	<b>25</b>	10	5
Particles >21µm	ASTM D7647	>40	<b>6</b>	3	2
Particles >38µm	ASTM D7647	>10	<b>0</b>	0	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/12</b>	16/14/10	17/14/10

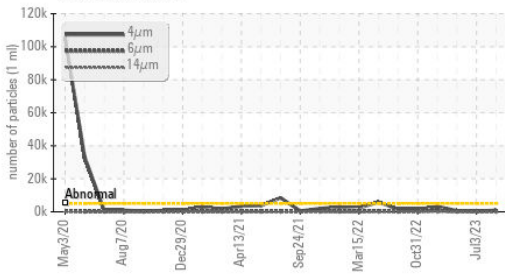
### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 2.25	<b>1.05</b>	1.35	0.83

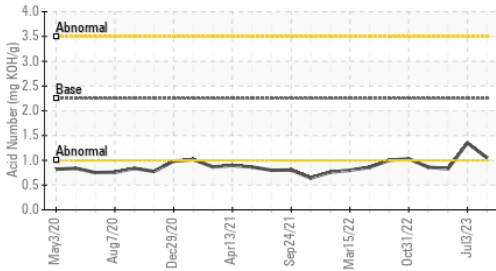


# OIL ANALYSIS REPORT

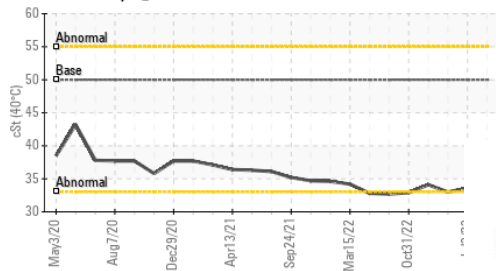
Particle Trend



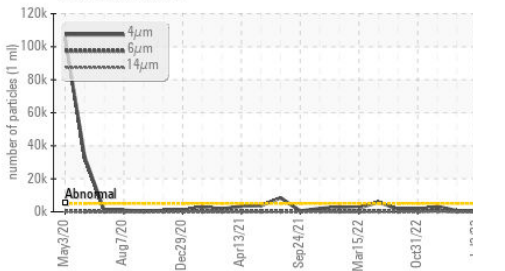
Acid Number



Viscosity @ 40°C



Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 50	33.5	33.6	33.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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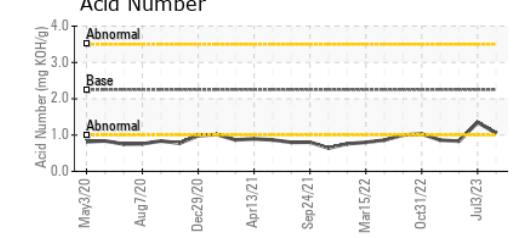
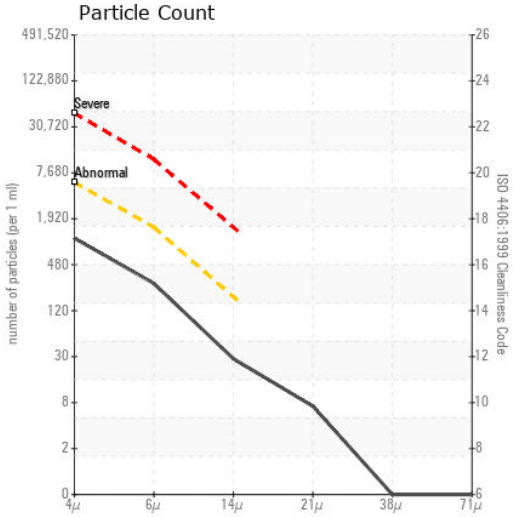
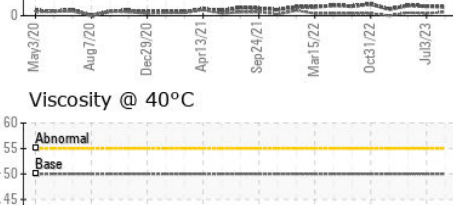
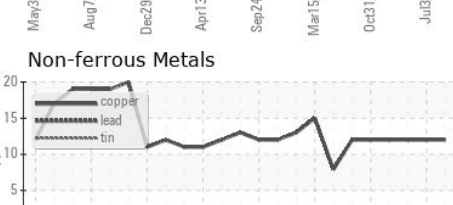
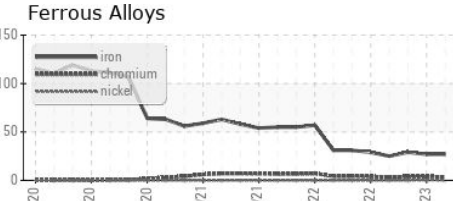
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## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0837171  
 Lab Number : 05932069  
 Unique Number : 10617340  
 Test Package : CONST

**TRADER CONSTRUCTION CO.**  
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 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
 mw Wyatt@traderconstruction.com  
 T: (252)633-1399  
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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)