

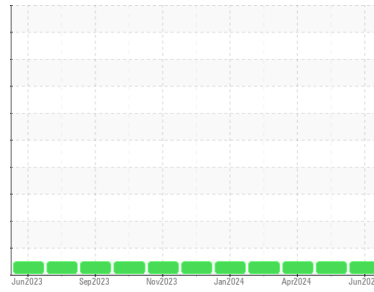


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 374 10555 (S/N TNX10032)**  
 Component  
**Hydraulic System**  
 Fluid  
 {not provided} (--- GAL)

### Sample Rating Trend



**NORMAL**



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is 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>WC0888098</b>	WC0913101	WC0913236
Sample Date	Client Info			<b>05 Jun 2024</b>	01 May 2024	13 Apr 2024
Machine Age	hrs	Client Info		<b>6164</b>	5527	5200
Oil Age	hrs	Client Info		<b>6164</b>	5527	5200
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>14</b>	11	11
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	2	2
Lead	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>75	<b>8</b>	7	7
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
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		<b>14</b>	12	10
Barium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>13</b>	10	9
Calcium	ppm	ASTM D5185m		<b>1583</b>	1589	1393
Phosphorus	ppm	ASTM D5185m		<b>820</b>	803	671
Zinc	ppm	ASTM D5185m		<b>1022</b>	959	777
Sulfur	ppm	ASTM D5185m		<b>4127</b>	4143	3423

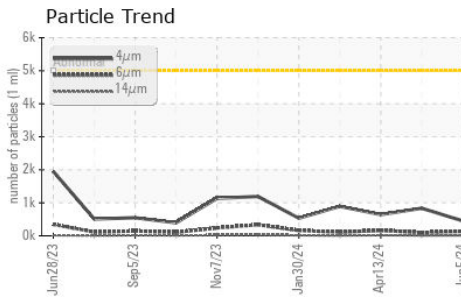
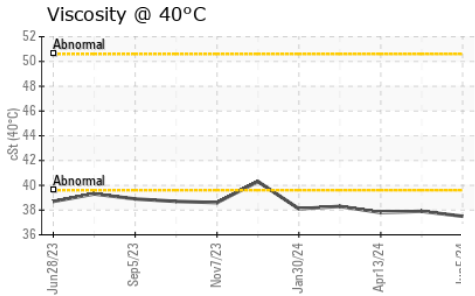
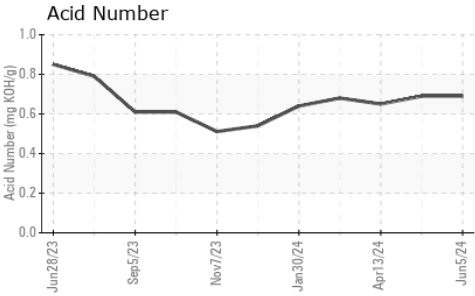
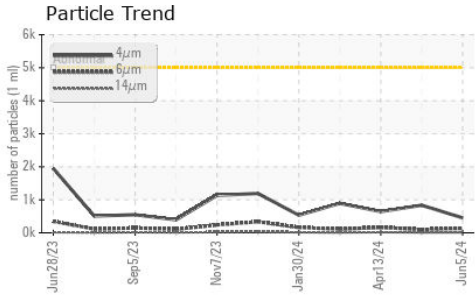
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>10</b>	8	6
Sodium	ppm	ASTM D5185m		<b>11</b>	10	13
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	11

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>453</b>	836	643
Particles >6µm		ASTM D7647	>1300	<b>130</b>	100	164
Particles >14µm		ASTM D7647	>160	<b>12</b>	10	18
Particles >21µm		ASTM D7647	>40	<b>4</b>	3	5
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>16/14/11</b>	17/14/10	17/15/11

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.69</b>	0.69	0.65



# OIL ANALYSIS REPORT



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	37.5	37.9	37.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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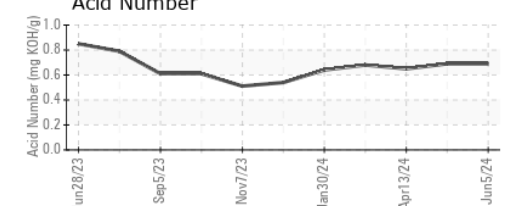
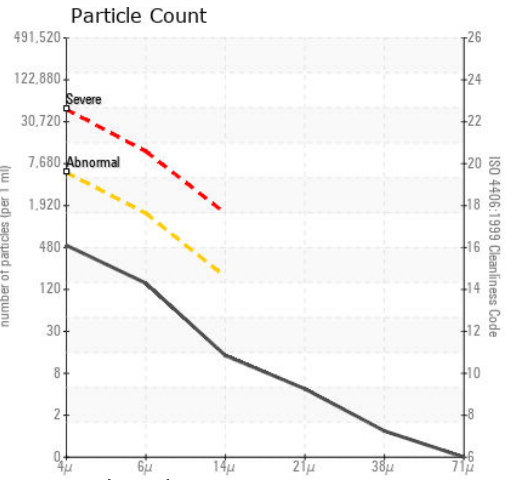
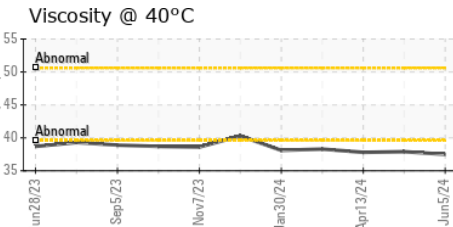
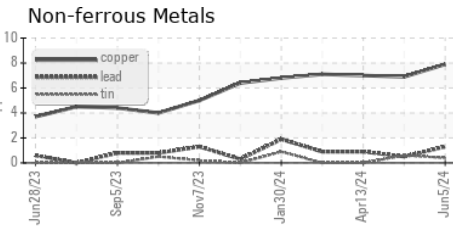
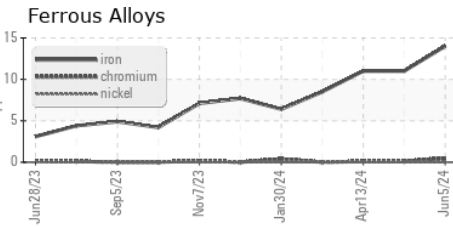
Color



Bottom



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0888098      **Received** : 07 Jun 2024  
**Lab Number** : 06202662      **Tested** : 10 Jun 2024  
**Unique Number** : 11070123      **Diagnosed** : 10 Jun 2024 - Wes Davis  
**Test Package** : CONST

**TRADER CONSTRUCTION CO.**  
 PO DRAWER 1578  
 NEW BERN, NC  
 US 28563  
 Contact: MIKE WYATT  
 mwyatt@traderconstruction.com  
 T: (252)633-1399  
 F: (252)638-4871

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)