

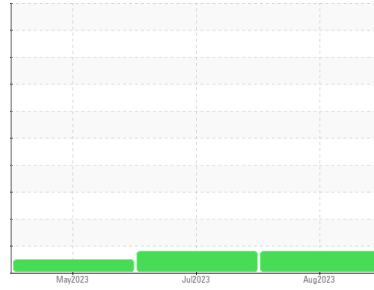


# OIL ANALYSIS REPORT



Area  
**Action Newark**  
Machine Id  
**CATERPILLAR 315 5579 (S/N CCJC01085)**  
Component  
**Left Final Drive**  
Fluid  
**TDTO FLUID SAE 30 (--- GAL)**

## Sample Rating Trend



**WEAR**



### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### ▲ Wear

The chromium 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>WC0774701</b>	WC0831078	WC0745262
Sample Date	Client Info		<b>15 Aug 2023</b>	15 Jul 2023	08 May 2023
Machine Age	hrs	Client Info	<b>19169</b>	19147	18894
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>151</b>	171	130
Chromium	ppm	ASTM D5185m >10	<b>▲ 11</b>	▲ 12	8
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >75	<b>3</b>	5	5
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >8	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 37	<b>4</b>	8	6
Barium	ppm	ASTM D5185m 7	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 5	<b>6</b>	7	6
Manganese	ppm	ASTM D5185m	<b>1</b>	2	2
Magnesium	ppm	ASTM D5185m 40	<b>31</b>	42	45
Calcium	ppm	ASTM D5185m 2650	<b>2339</b>	2285	2094
Phosphorus	ppm	ASTM D5185m 1050	<b>925</b>	847	805
Zinc	ppm	ASTM D5185m 1075	<b>1153</b>	1063	1019
Sulfur	ppm	ASTM D5185m 5750	<b>8561</b>	8780	7883

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>28</b>	29	26
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>1</b>	2	2

### 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>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

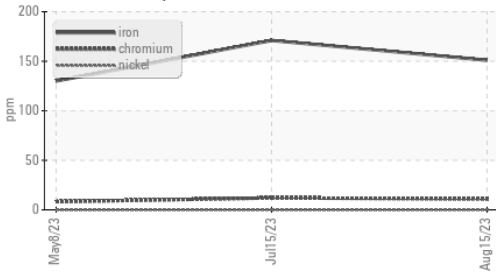
### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 101	<b>97.0</b>	96.0	93.2



# OIL ANALYSIS REPORT

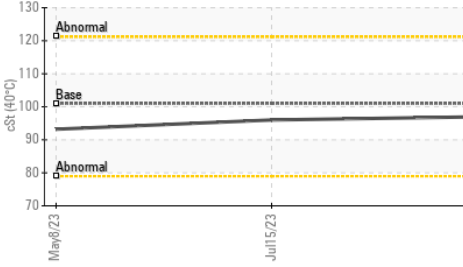
### ▲ Ferrous Alloys



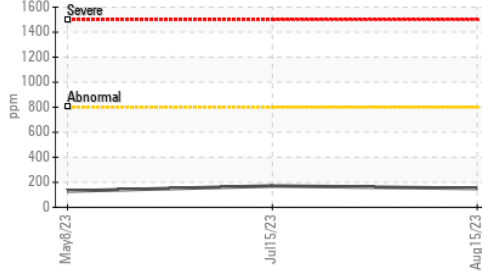
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

### GRAPHS

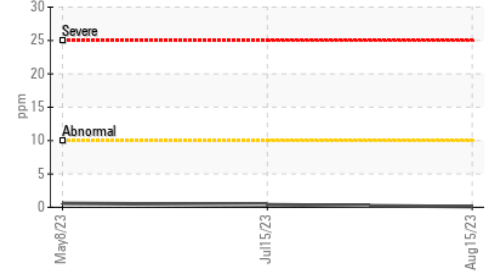
### Viscosity @ 40°C



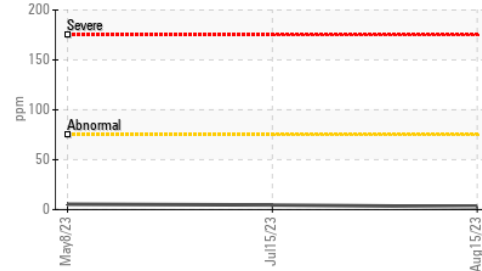
### Iron (ppm)



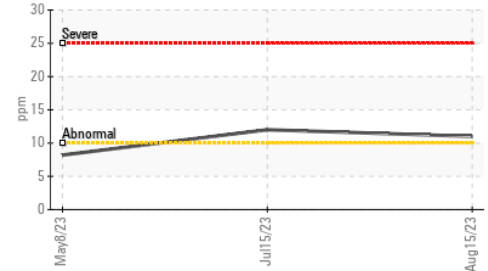
### Lead (ppm)



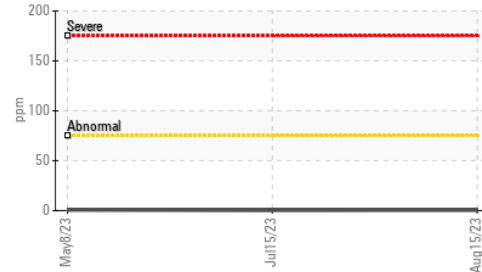
### Aluminum (ppm)



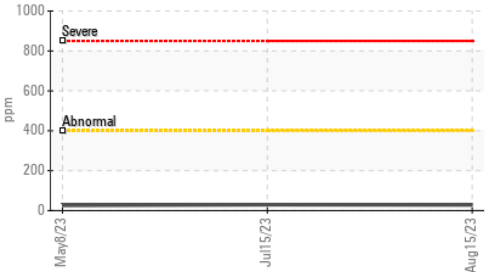
### ▲ Chromium (ppm)



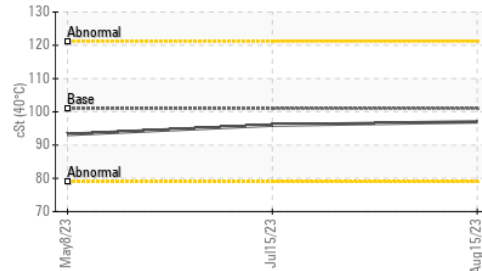
### Copper (ppm)



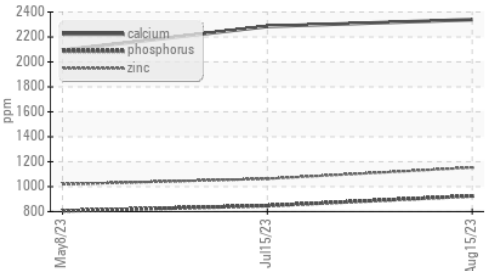
### Silicon (ppm)



### Viscosity @ 40°C



### Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0774701      **Received** : 22 Aug 2023  
**Lab Number** : 05931058      **Diagnosed** : 23 Aug 2023  
**Unique Number** : 10616329      **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1

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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)