

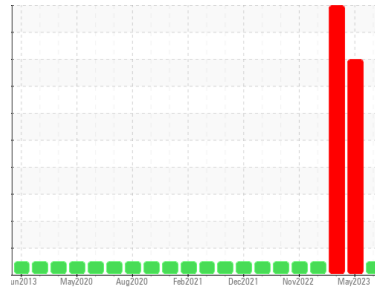


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR D10T 15105048 (S/N CCAT0D10THRJG01478)**  
 Component  
**Right Final Drive**  
 Fluid  
**CHEVRON 50WT (--- 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**  
 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>RP0033695</b>	RP0032895	RP0032950
Sample Date	Client Info		<b>12 Jul 2023</b>	01 May 2023	06 Apr 2023
Machine Age	hrs	Client Info	<b>68943</b>	68172	67788
Oil Age	hrs	Client Info	<b>334</b>	2700	2316
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	SEVERE	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>25</b>	▲ 901	▲ 1146
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	5	8
Nickel	ppm	ASTM D5185m >5	<b>0</b>	11	17
Titanium	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >75	<b>1</b>	22	▲ 28
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >75	<b>&lt;1</b>	● 205	● 223
Tin	ppm	ASTM D5185m >8	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>1</b>	2	3
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>3</b>	4	4
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	8	12
Magnesium	ppm	ASTM D5185m	<b>17</b>	18	23
Calcium	ppm	ASTM D5185m	<b>3604</b>	3321	3447
Phosphorus	ppm	ASTM D5185m	<b>904</b>	905	954
Zinc	ppm	ASTM D5185m	<b>1120</b>	1092	1128

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>17</b>	28	33
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	2
Potassium	ppm	ASTM D5185m >20	<b>3</b>	1	<1
Water	%	ASTM D6304 >0.2	<b>0.052</b>	0.018	0.037
ppm Water	ppm	ASTM D6304 >2000	<b>521.6</b>	182.6	371.7

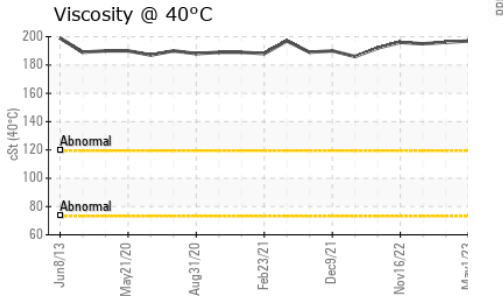
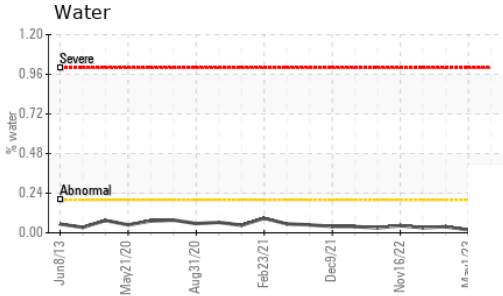
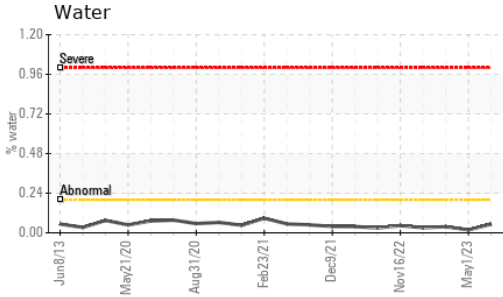
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.10</b>	0.30	0.585

## 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>	▲ MODER	● HEAVY
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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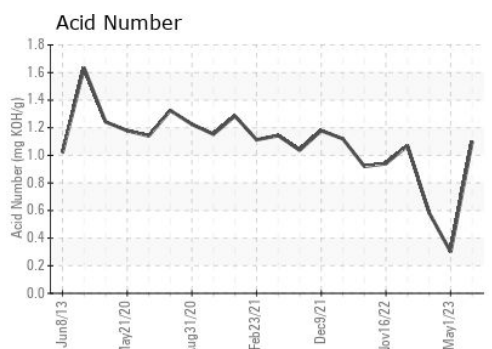
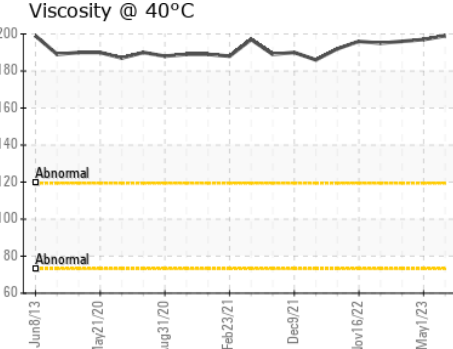
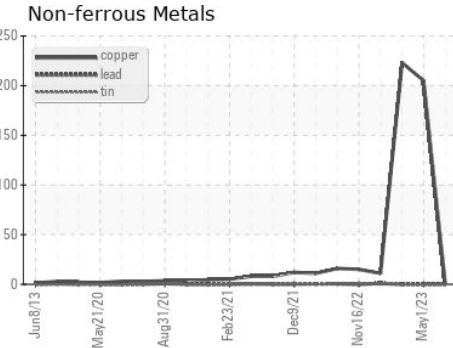
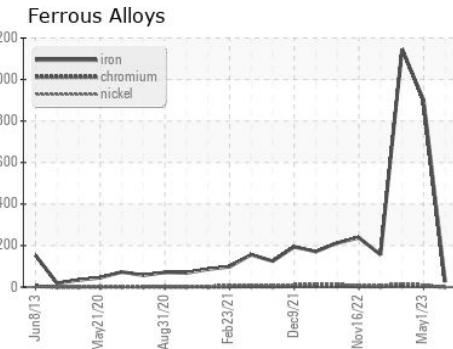


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		199	197	196

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0033695 **Received** : 24 Jul 2023  
**Lab Number** : 05905539 **Diagnosed** : 25 Jul 2023  
**Unique Number** : 10566895 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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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)