



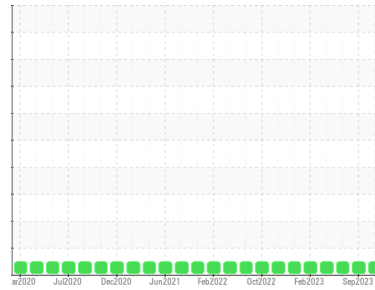
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CATERPILLAR D10T 15105049 (S/N CATOD10TCRJG01495)**  
 Component  
**Right Final Drive**  
 Fluid  
**CHEVRON 50WT (--- 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.

### 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>RP0036191</b>	RP0033750	RP0033355
Sample Date	Client Info			<b>31 Oct 2023</b>	13 Sep 2023	02 Aug 2023
Machine Age	hrs	Client Info		<b>25193</b>	24938	24690
Oil Age	hrs	Client Info		<b>708</b>	453	209
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	>800	<b>61</b>	62	63
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	2
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>2</b>	<1	0
Aluminum	ppm	ASTM D5185m	>75	<b>4</b>	6	6
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>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1

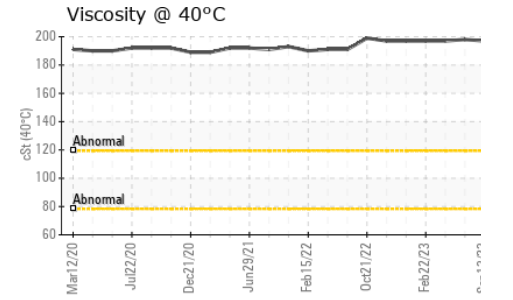
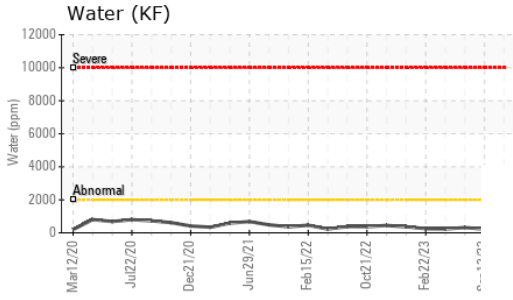
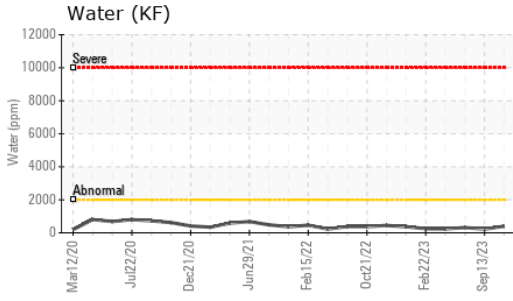
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>2</b>	1	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>4</b>	4	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185m		<b>24</b>	19	29
Calcium	ppm	ASTM D5185m		<b>3440</b>	3692	3750
Phosphorus	ppm	ASTM D5185m		<b>810</b>	998	993
Zinc	ppm	ASTM D5185m		<b>1229</b>	1200	1212

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	<b>31</b>	33	36
Sodium	ppm	ASTM D5185m		<b>2</b>	0	2
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Water	%	ASTM D6304	>0.2	<b>0.040</b>	0.022	0.031
ppm Water	ppm	ASTM D6304	>2000	<b>400.4</b>	223.9	316.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.99</b>	1.01	0.98

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

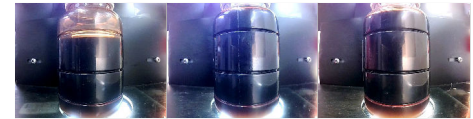
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		197	197	198

SAMPLE IMAGES		method	limit/base	current	history1	history2
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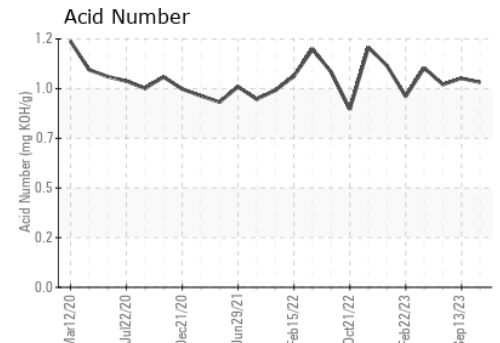
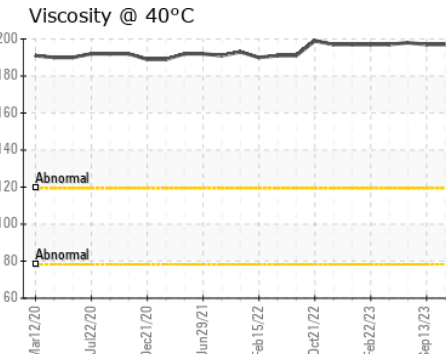
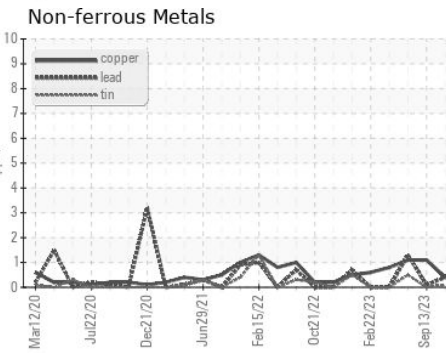
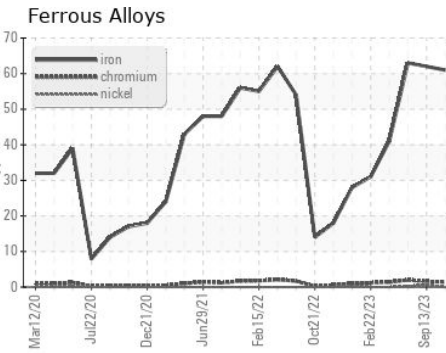
Color



Bottom



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0036191 **Received** : 07 Nov 2023  
**Lab Number** : 06000581 **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10728941 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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)

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