

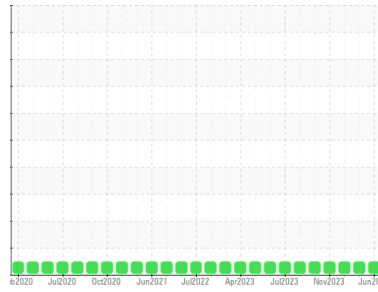


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR D10T 15105048 (S/N CCAT0D10THRJG01478)**  
 Component  
**Left Final Drive**  
 Fluid  
**CHEVRON 50WT (--- GAL)**

### Sample Rating Trend



**NORMAL**

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 The water content is negligible. 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>RP0040755</b>	RP0036872	RP0036207
Sample Date	Client Info		<b>04 Jun 2024</b>	07 May 2024	19 Dec 2023
Machine Age	hrs	Client Info	<b>71327</b>	70999	70375
Oil Age	hrs	Client Info	<b>328</b>	565	1713
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>24</b>	101	14
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	2	0
Nickel	ppm	ASTM D5185m >5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >75	<b>2</b>	7	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >75	<b>1</b>	3	8
Tin	ppm	ASTM D5185m >8	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>1</b>	<1	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>3</b>	3	2
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	0
Magnesium	ppm	ASTM D5185m	<b>18</b>	22	19
Calcium	ppm	ASTM D5185m	<b>3454</b>	3117	3258
Phosphorus	ppm	ASTM D5185m	<b>862</b>	1139	887
Zinc	ppm	ASTM D5185m	<b>1099</b>	1275	1105

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>20</b>	25	16
Sodium	ppm	ASTM D5185m	<b>2</b>	17	1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	0
Water	%	ASTM D6304 >0.2	<b>0.042</b>	0.072	0.036
ppm Water	ppm	ASTM D6304 >2000	<b>427</b>	722	370

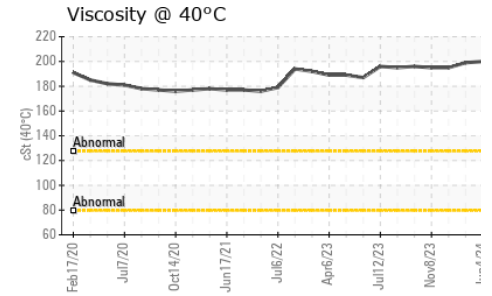
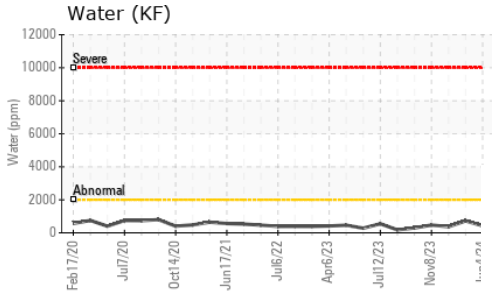
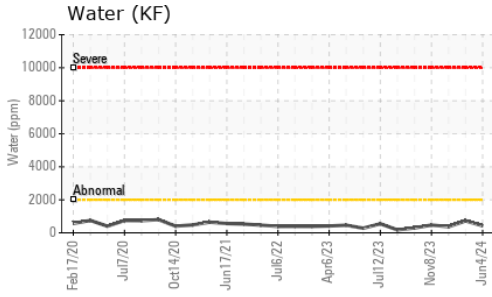
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.05</b>	1.53	1.27

## 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>	LIGHT	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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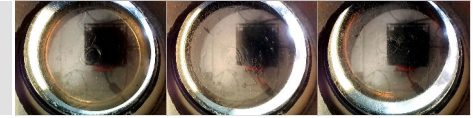
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	200	199	195

SAMPLE IMAGES	method	limit/base	current	history1	history2
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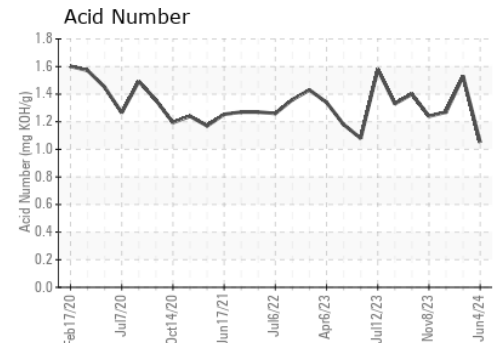
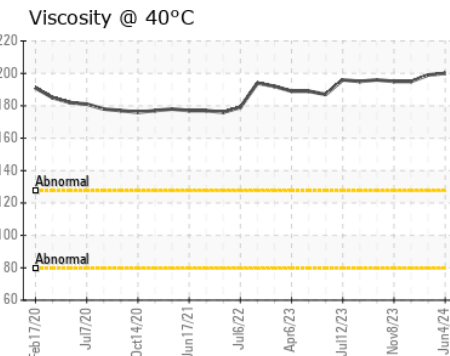
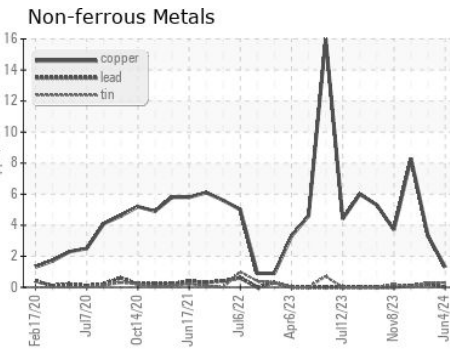
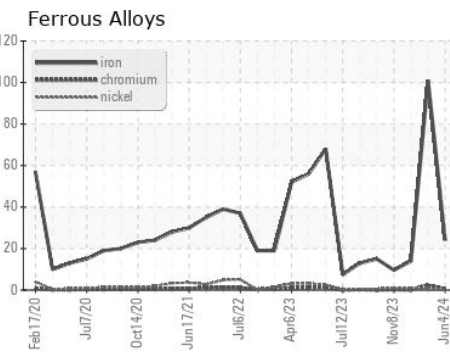
Color



Bottom



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0040755  
**Lab Number** : 06206620  
**Unique Number** : 11074081  
**Test Package** : IND 2

**Received** : 11 Jun 2024  
**Tested** : 13 Jun 2024  
**Diagnosed** : 13 Jun 2024 - Wes Davis

**NRG TEXAS LLC**  
 3784 FM 39 SOUTH  
 JEWETT, TX  
 US 75846

Contact: JURGEN THOMPSON  
 JThompson@ecomaterial.com

T: (903)626-9528  
 F: (903)626-9772

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)