

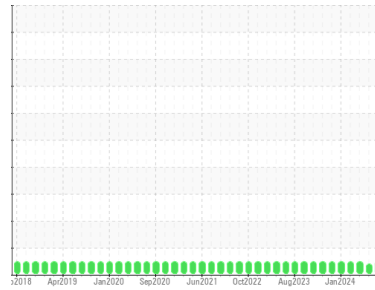


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR D10T 15105049 (S/N CATOD10TCRJG01495)**  
 Component  
**Transmission (Manual)**  
 Fluid  
**RP CMT 50 (--- 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>RP0040784</b>	RP0036965	RP0036995
Sample Date	Client Info		<b>22 May 2024</b>	22 Apr 2024	25 Mar 2024
Machine Age	hrs	Client Info	<b>28263</b>	27093	26857
Oil Age	hrs	Client Info	<b>2878</b>	2608	2372
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>21</b>	13	21
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >7	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	<1	2
Lead	ppm	ASTM D5185m >45	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >225	<b>15</b>	13	15
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>9</b>	9	8
Calcium	ppm	ASTM D5185m	<b>2914</b>	3185	3017
Phosphorus	ppm	ASTM D5185m	<b>1087</b>	1105	1048
Zinc	ppm	ASTM D5185m	<b>1202</b>	1263	1241

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	<b>11</b>	6	10
Sodium	ppm	ASTM D5185m	<b>4</b>	5	5
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	3
Water	%	ASTM D6304 >0.1	<b>0.087</b>	0.035	0.021
ppm Water	ppm	ASTM D6304 >1000	<b>878</b>	358	215

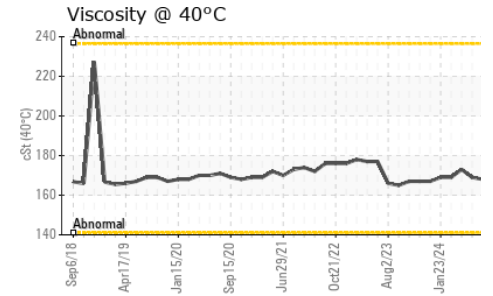
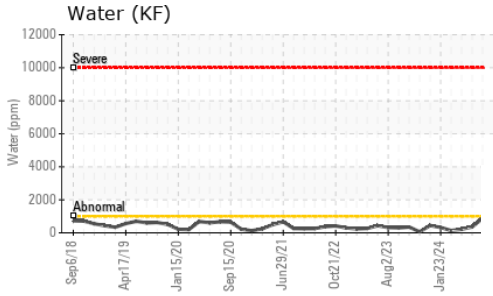
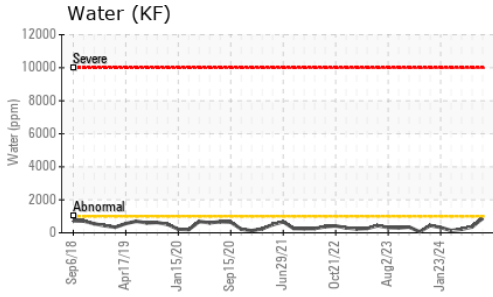
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.14</b>	1.09	1.03

## VISUAL

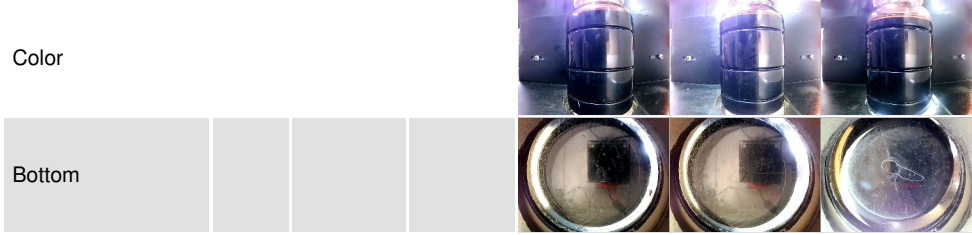
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	▲ MODER	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 >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

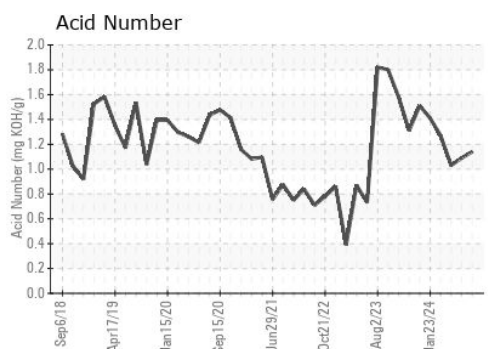
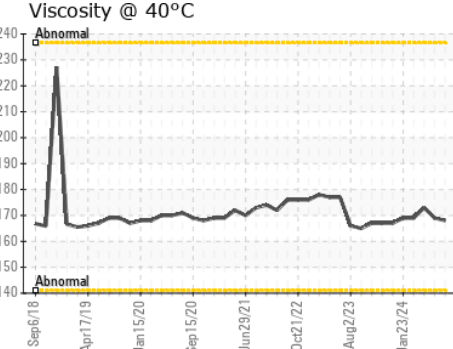
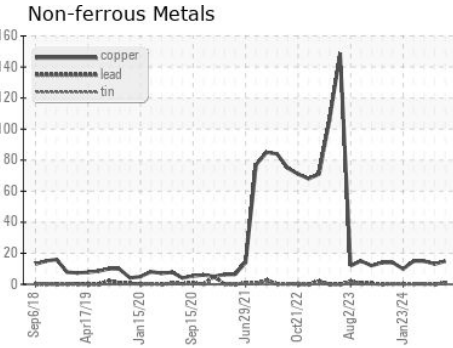
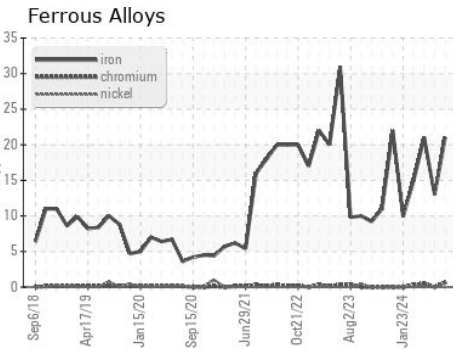


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		168	169	173

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.** : RP0040784  
**Lab Number** : 06194066  
**Unique Number** : 11056189  
**Test Package** : IND 2

**Received** : 29 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 31 May 2024 - Angela Borella

**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)