

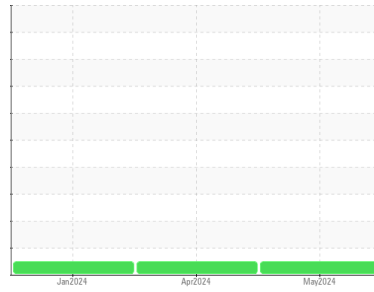


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 5086**  
 Component  
**Transmission**  
 Fluid  
 {not provided} (--- 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 fluid.

#### Fluid Condition

The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0924890</b>	WC0858472	WC0900081
Sample Date	Client Info			<b>22 May 2024</b>	08 Apr 2024	31 Jan 2024
Machine Age	hrs	Client Info		<b>30313</b>	30042	29546
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>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>25</b>	18	22
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m		<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>50	<b>2</b>	1	1
Lead	ppm	ASTM D5185m	>50	<b>3</b>	3	4
Copper	ppm	ASTM D5185m	>200	<b>43</b>	39	44
Tin	ppm	ASTM D5185m	>10	<b>2</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

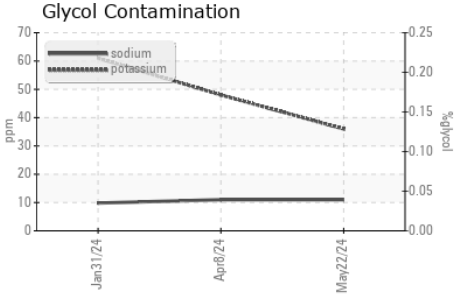
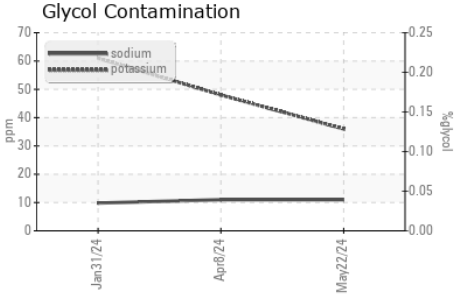
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>4</b>	5	9
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	4	5
Manganese	ppm	ASTM D5185m		<b>1</b>	0	1
Magnesium	ppm	ASTM D5185m		<b>38</b>	40	45
Calcium	ppm	ASTM D5185m		<b>2615</b>	2770	2532
Phosphorus	ppm	ASTM D5185m		<b>1030</b>	1128	982
Zinc	ppm	ASTM D5185m		<b>1154</b>	1244	1148
Sulfur	ppm	ASTM D5185m		<b>7719</b>	7650	7111

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>7</b>	6	9
Sodium	ppm	ASTM D5185m		<b>11</b>	11	10
Potassium	ppm	ASTM D5185m	>20	<b>36</b>	48	61

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	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



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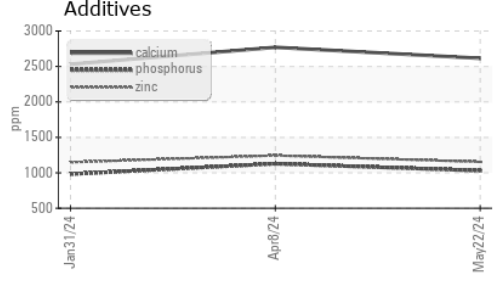
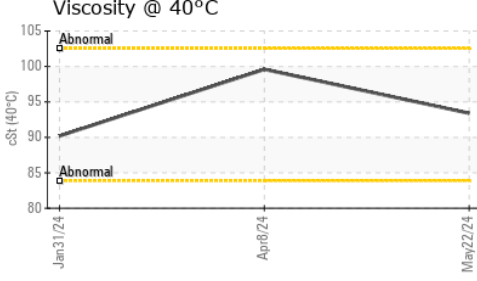
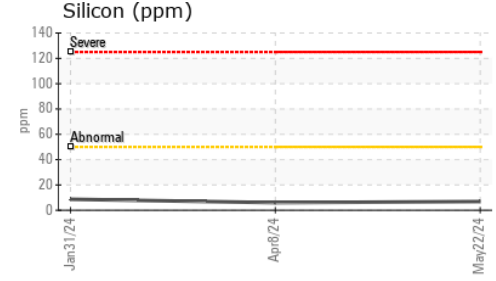
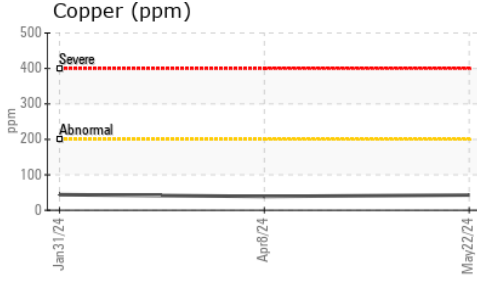
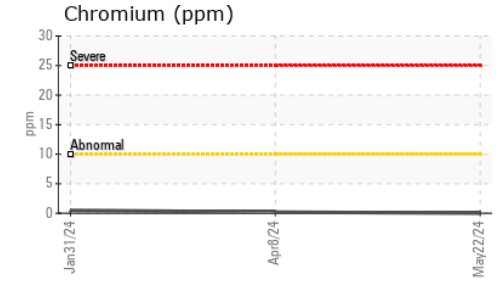
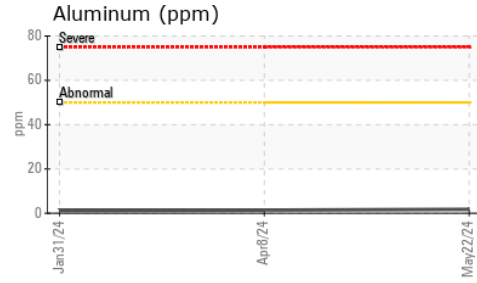
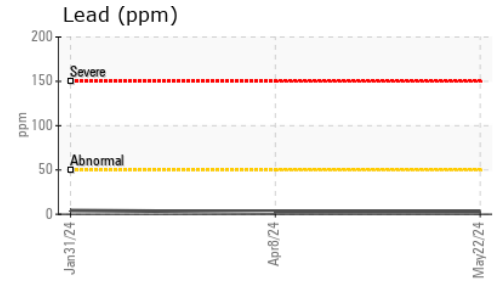
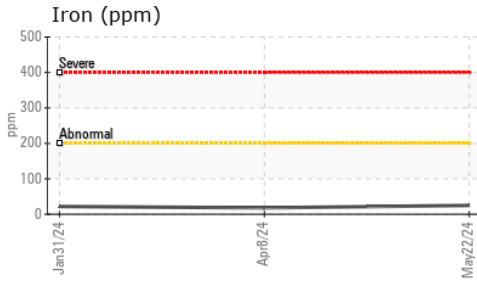


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	93.4	99.6	90.2

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0924890      **Received** : 05 Jun 2024  
**Lab Number** : 06200680      **Tested** : 07 Jun 2024  
**Unique Number** : 11062803      **Diagnosed** : 07 Jun 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**INTERSTATE WASTE-NEWARK**  
 110 EVERGREEN AVE, BAY 3  
 NEWARK, NJ  
 US 07114  
 Contact: Robert Witynski  
 RWitynski@interstatewaste.com

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)