



# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**



Machine Id  
**CATERPILLAR 924K LDR017**  
Component  
**Rear Differential**  
Fluid  
**MOBIL TO4-30 (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### ▲ Wear

Copper ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0886095</b>	---	---
Sample Date	Client Info		<b>04 Jan 2024</b>	---	---
Machine Age	hrs	Client Info	<b>17636</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	<b>146</b>	---	---
Chromium	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >30	<b>14</b>	---	---
Lead	ppm	ASTM D5185(m) >13	<b>3</b>	---	---
Copper	ppm	ASTM D5185(m) >103	<b>▲ 111</b>	---	---
Tin	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

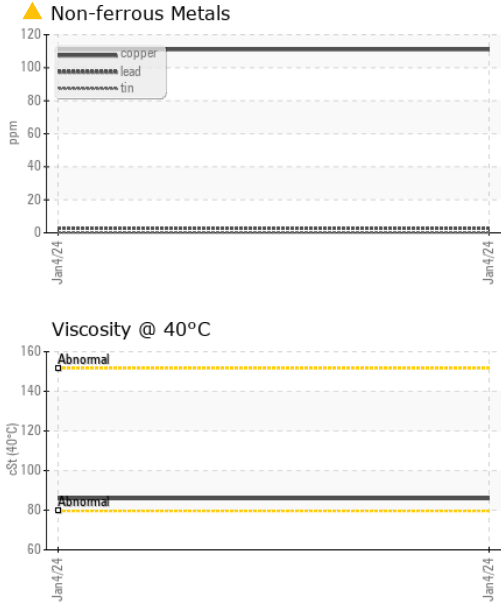
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>3</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>12</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>3388</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>915</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>1048</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>4905</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >100	<b>12</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>7</b>	---	---



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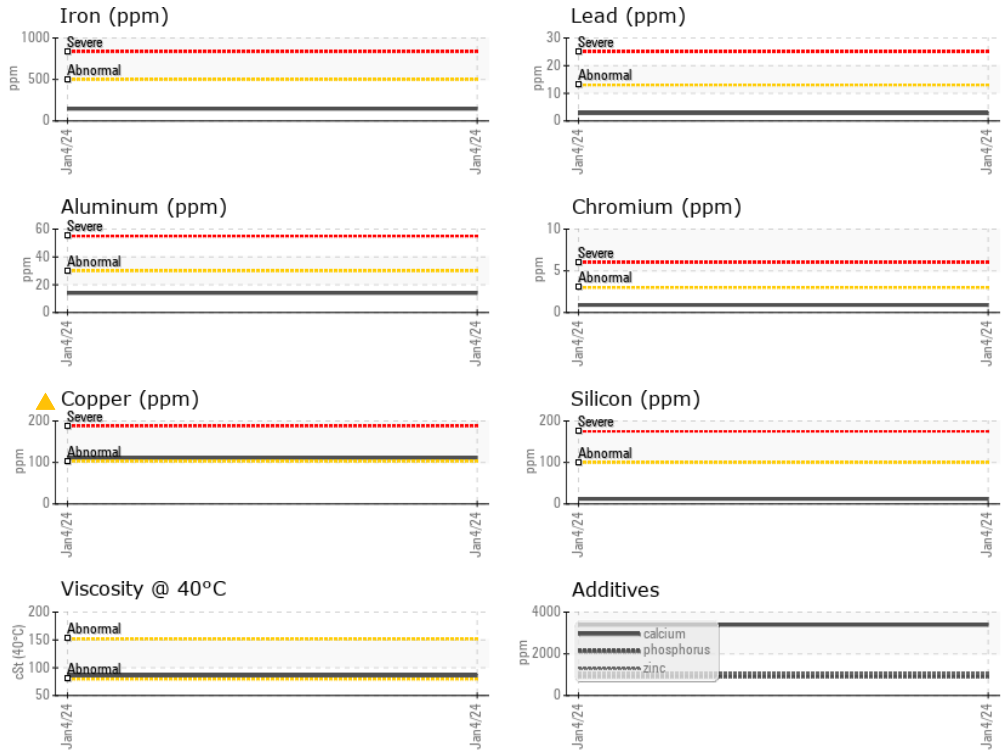
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	---	---
Precipitate	scalar	Visual*	NONE	---	---
Silt	scalar	Visual*	NONE	---	---
Debris	scalar	Visual*	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	---	---
Appearance	scalar	Visual*	NORML	---	---
Odor	scalar	Visual*	NORML	---	---
Emulsified Water	scalar	Visual*	>.2	---	---
Free Water	scalar	Visual*	---	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>85.9</b>	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0886095 **Received** : 11 Jan 2024  
**Lab Number** : 02608275 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 5709361 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.