



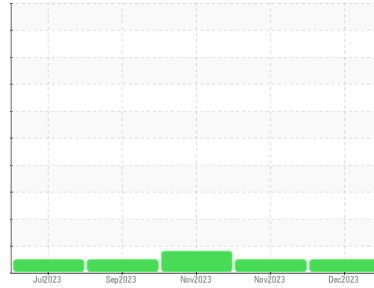
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CATERPILLAR R1600 SCP219**  
 Component  
**Rear Differential**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0826266</b>	WC0881703	WC0861412
Sample Date	Client Info		<b>31 Dec 2023</b>	29 Nov 2023	12 Nov 2023
Machine Age	hrs	Client Info	<b>2498</b>	2149	1972
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	<b>25</b>	18	69
Chromium	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m) >30	<b>2</b>	1	1
Lead	ppm	ASTM D5185(m) >13	<b>&lt;1</b>	<1	3
Copper	ppm	ASTM D5185(m) >103	<b>37</b>	26	▲ 115
Tin	ppm	ASTM D5185(m) >5	<b>1</b>	<1	4
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

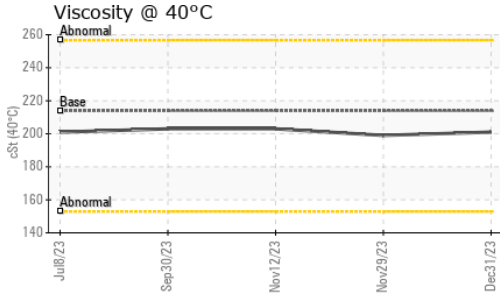
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	<b>&lt;1</b>	1	2
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	3
Molybdenum	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	1
Magnesium	ppm	ASTM D5185(m) 9	<b>10</b>	10	13
Calcium	ppm	ASTM D5185(m) 3114	<b>3461</b>	3626	3798
Phosphorus	ppm	ASTM D5185(m) 1099	<b>896</b>	892	931
Zinc	ppm	ASTM D5185(m) 1245	<b>1027</b>	1080	1119
Sulfur	ppm	ASTM D5185(m) 7086	<b>10525</b>	10654	7558
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >100	<b>6</b>	5	5
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	3
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0



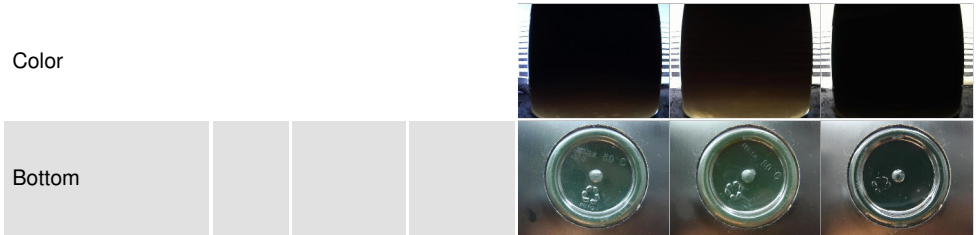
# OIL ANALYSIS REPORT



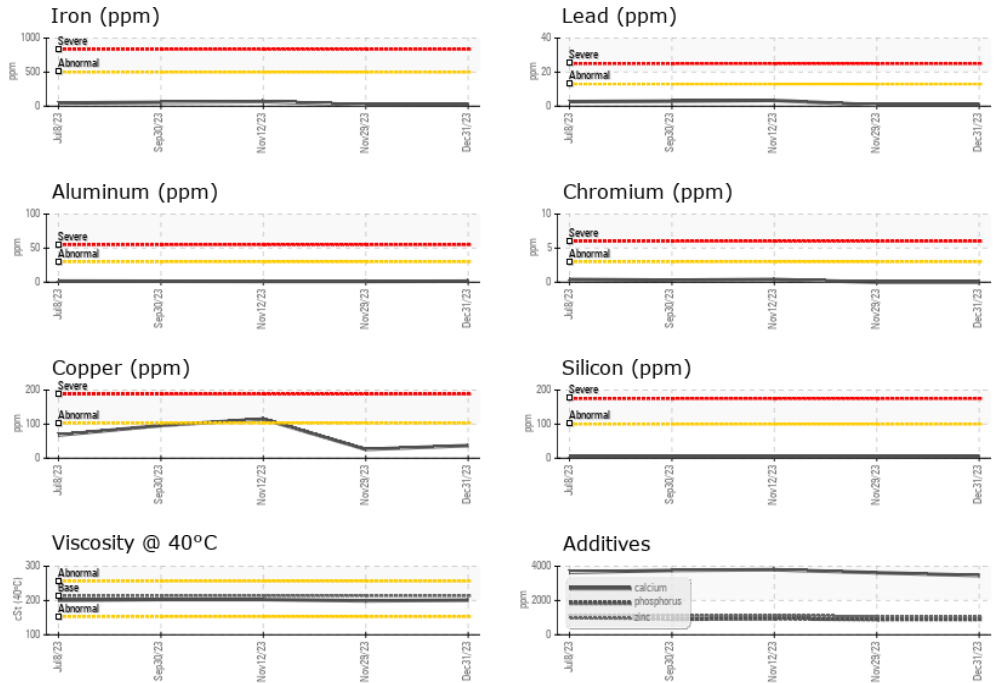
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	201	199

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0826266 **Received** : 04 Jan 2024  
**Lab Number** : 02606622 **Diagnosed** : 04 Jan 2024  
**Unique Number** : 5707708 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**Agnico Eagle Canada**  
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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.