

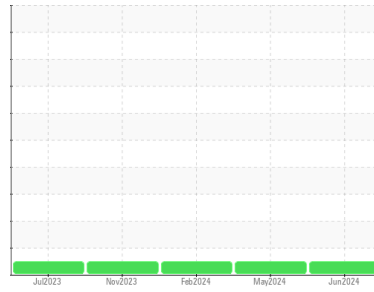


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR R1300 SCP221**  
 Component  
**Front Differential**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 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 condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0949840</b>	WC0937713	WC0892399
Sample Date	Client Info		<b>10 Jun 2024</b>	09 May 2024	20 Feb 2024
Machine Age	hrs	Client Info	<b>3866</b>	3516	2683
Oil Age	hrs	Client Info	<b>0</b>	0	500
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### 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>35</b>	30	28
Chromium	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >30	<b>5</b>	4	4
Lead	ppm	ASTM D5185(m) >13	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m) >103	<b>24</b>	16	28
Tin	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	0	<1
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

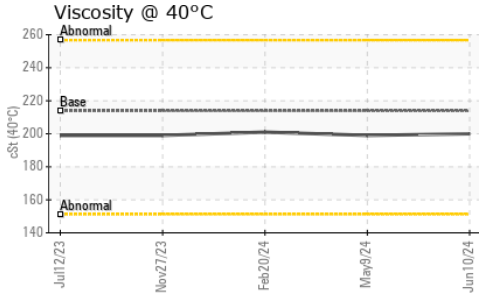
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	<b>1</b>	1	8
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m) 9	<b>13</b>	14	8
Calcium	ppm	ASTM D5185(m) 3114	<b>3490</b>	3491	2702
Phosphorus	ppm	ASTM D5185(m) 1099	<b>900</b>	874	662
Zinc	ppm	ASTM D5185(m) 1245	<b>1075</b>	1055	806
Sulfur	ppm	ASTM D5185(m) 7086	<b>11221</b>	10848	9682
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>13</b>	15	6
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	2
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0



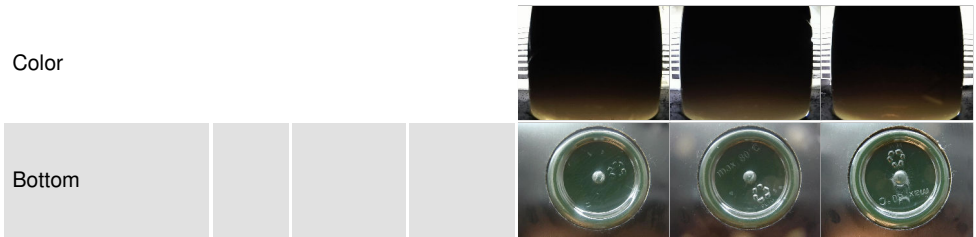
# OIL ANALYSIS REPORT



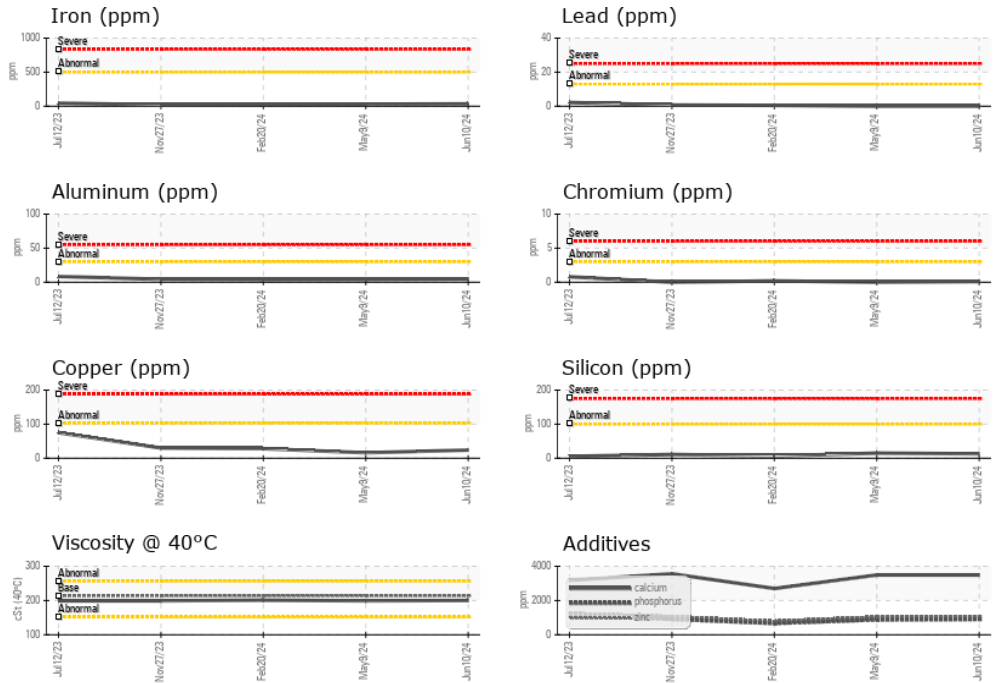
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	200	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.** : WC0949840  
**Lab Number** : 02641812  
**Unique Number** : 5799351  
**Test Package** : MOB 1

**Agnico Eagle Canada**  
 1350 Government Rd. W, MACASSA COMPLEX  
 Kirkland Lake, ON  
 CA P2N 3J1

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.

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