

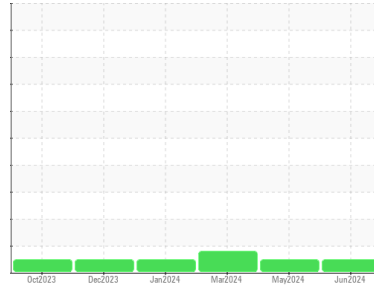


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR R1600H SCP222**  
 Component  
**Front Right Planetary**  
 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>WC0940510</b>	WC0930840	WC0902357
Sample Date	Client Info		<b>09 Jun 2024</b>	09 May 2024	11 Mar 2024
Machine Age	hrs	Client Info	<b>1976</b>	0	1077
Oil Age	hrs	Client Info	<b>0</b>	0	1077
Oil Changed	Client Info		<b>Changed</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ATTENTION

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >500	<b>21</b>	22	29
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m) >10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >25	<b>8</b>	8	12
Copper	ppm	ASTM D5185(m) >75	<b>94</b>	93	153
Tin	ppm	ASTM D5185(m) >10	<b>4</b>	4	3
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

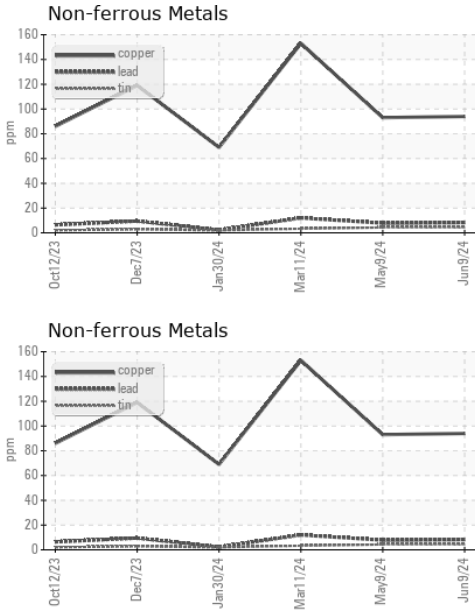
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	<b>8</b>	9	13
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	5
Molybdenum	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 9	<b>17</b>	16	8
Calcium	ppm	ASTM D5185(m) 3114	<b>3868</b>	3699	2544
Phosphorus	ppm	ASTM D5185(m) 1099	<b>876</b>	866	1018
Zinc	ppm	ASTM D5185(m) 1245	<b>946</b>	926	1011
Sulfur	ppm	ASTM D5185(m) 7086	<b>5967</b>	6211	10280
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	<b>8</b>	7	4
Sodium	ppm	ASTM D5185(m)	<b>4</b>	1	3
Potassium	ppm	ASTM D5185(m) >20	<b>9</b>	<1	1



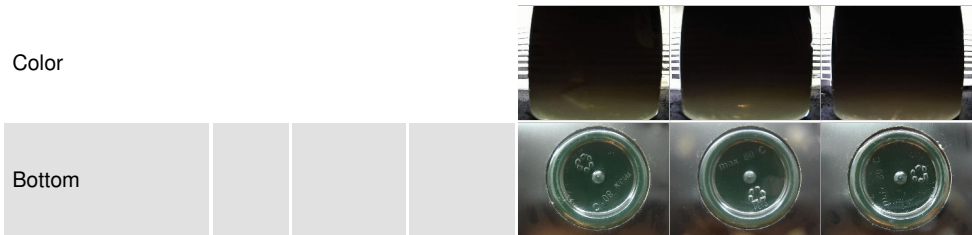
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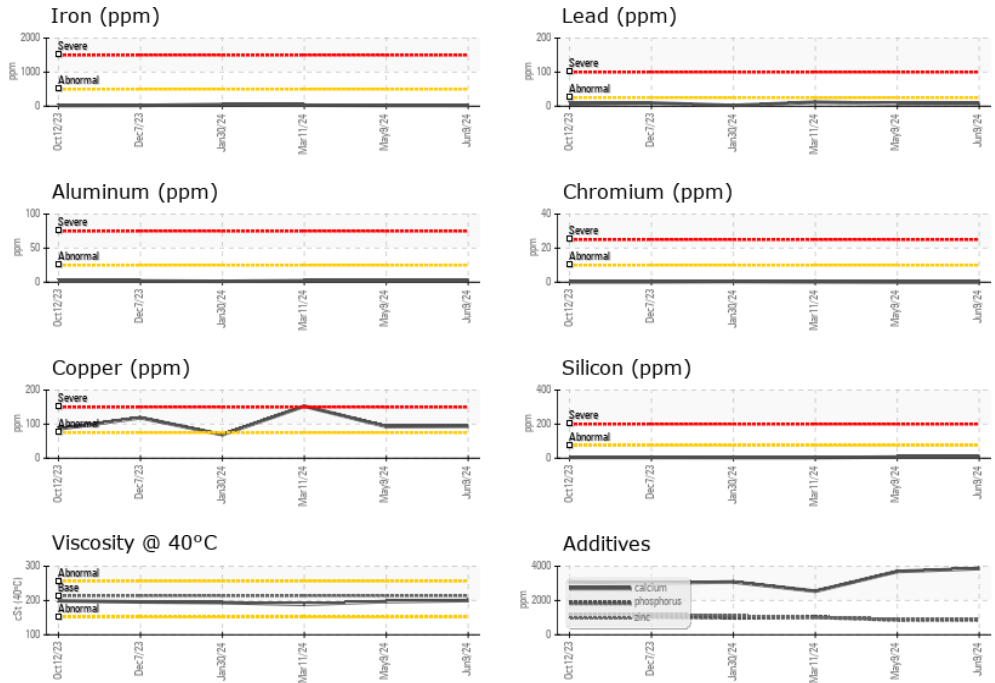
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	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	197

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.** : WC0940510  
**Lab Number** : 02641800  
**Unique Number** : 5799339  
**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.

**Contact:** Mitch Lamontagne  
 AEM\_KL\_macassaoilsamplesresults@agnicoeagle.com  
 T: (705)567-5208  
 F: (705)567-5221