

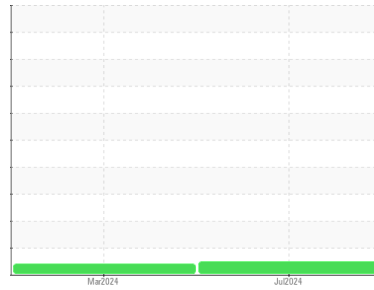


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR AD30 TRK228**  
 Component  
**Transmission (Manual)**  
 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 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>WC0960988</b>	WC0915117	---
Sample Date	Client Info		<b>10 Jul 2024</b>	23 Mar 2024	---
Machine Age	hrs	Client Info	<b>2654</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

### CONTAMINATION

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

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>22</b>	14	---
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	1	---
Lead	ppm	ASTM D5185(m)	>45	<b>1</b>	2	---
Copper	ppm	ASTM D5185(m)	>225	<b>16</b>	23	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

### ADDITIVES

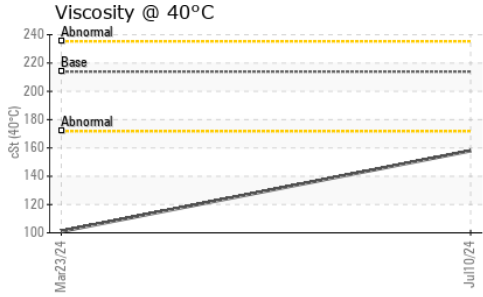
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	1	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	2	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m)	9	<b>9</b>	11	---
Calcium	ppm	ASTM D5185(m)	3114	<b>3389</b>	2947	---
Phosphorus	ppm	ASTM D5185(m)	1099	<b>878</b>	978	---
Zinc	ppm	ASTM D5185(m)	1245	<b>1140</b>	1188	---
Sulfur	ppm	ASTM D5185(m)	7086	<b>8893</b>	3826	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>125	<b>5</b>	5	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	5	---



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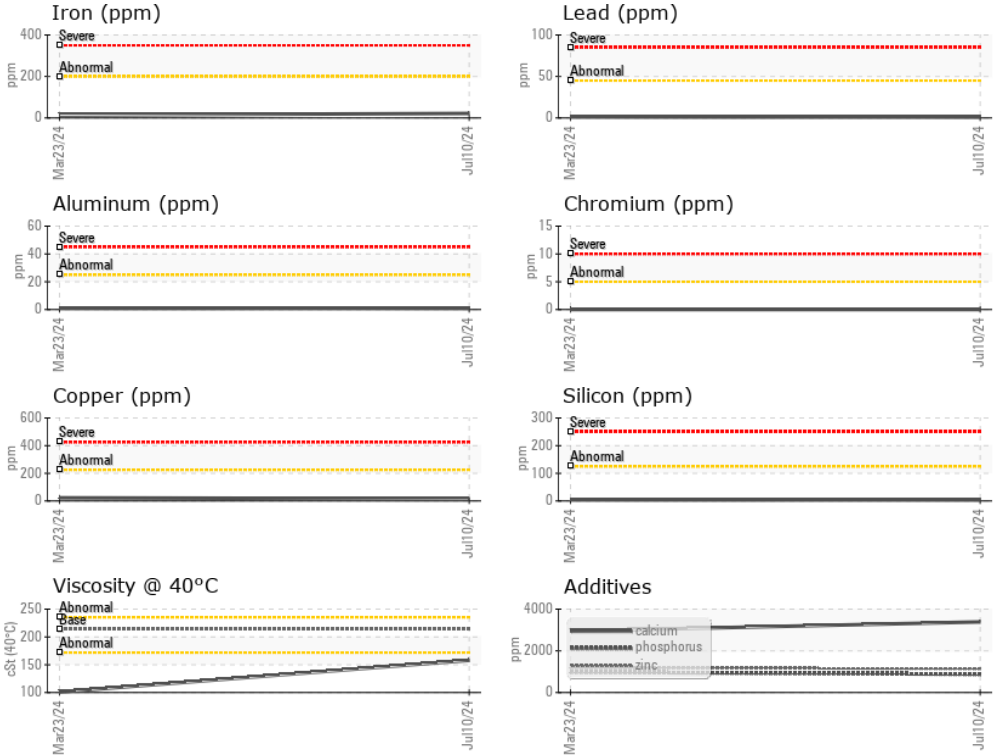
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	213.9	<b>158</b>	▲ 101

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0960988  
**Lab Number** : **02648193**  
**Unique Number** : 5813745  
**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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