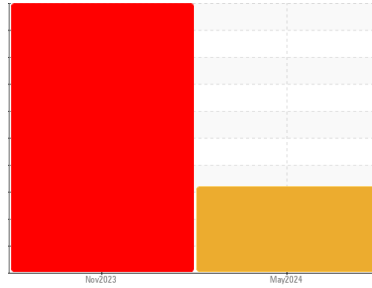




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**RONI**  
 Machine Id  
**228**  
 Component  
**Rear Axle**  
 Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

### ▲ Wear

Copper, nickel, lead and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. 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>WC0932661</b>	WC0873005	---
Sample Date	Client Info		<b>28 May 2024</b>	13 Nov 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	SEVERE	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>750	<b>330</b>	447	---
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	3	---
Nickel	ppm	ASTM D5185(m)	>3	<b>▲ 8</b>	▲ 12	---
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	---
Lead	ppm	ASTM D5185(m)	>5	<b>▲ 5</b>	▲ 7	---
Copper	ppm	ASTM D5185(m)	>100	<b>▲ 200</b>	▲ 275	---
Tin	ppm	ASTM D5185(m)	>8	<b>▲ 11</b>	▲ 18	---
Antimony	ppm	ASTM D5185(m)	>4	<b>0</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)	328	<b>3</b>	2	---
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	---
Manganese	ppm	ASTM D5185(m)		<b>20</b>	36	---
Magnesium	ppm	ASTM D5185(m)	1	<b>1</b>	<1	---
Calcium	ppm	ASTM D5185(m)	7	<b>7</b>	7	---
Phosphorus	ppm	ASTM D5185(m)	1145	<b>2234</b>	2296	---
Zinc	ppm	ASTM D5185(m)	3	<b>39</b>	49	---
Sulfur	ppm	ASTM D5185(m)	17909	<b>25556</b>	25711	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

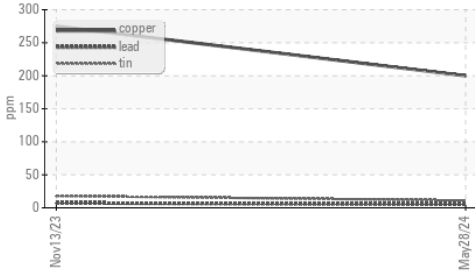
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>75	<b>20</b>	32	---
Sodium	ppm	ASTM D5185(m)		<b>8</b>	12	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	---

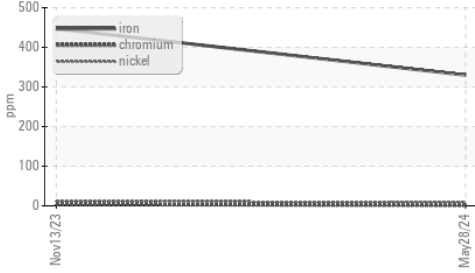


# OIL ANALYSIS REPORT

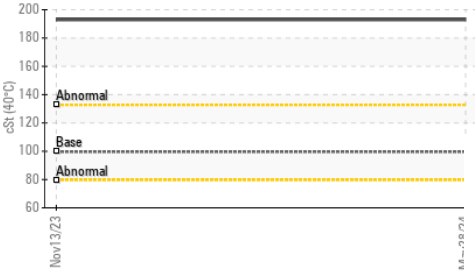
### ▲ Non-ferrous Metals



### ▲ Ferrous Alloys



### Viscosity @ 40°C



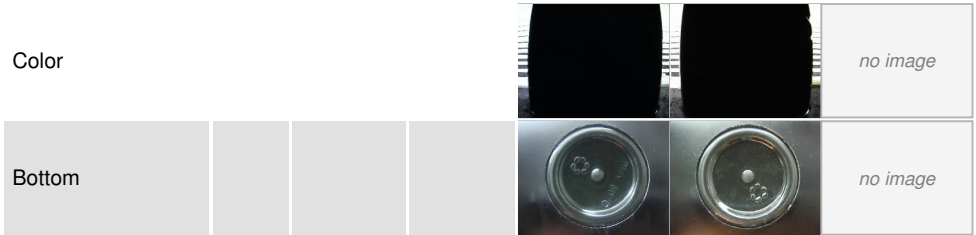
### Additives



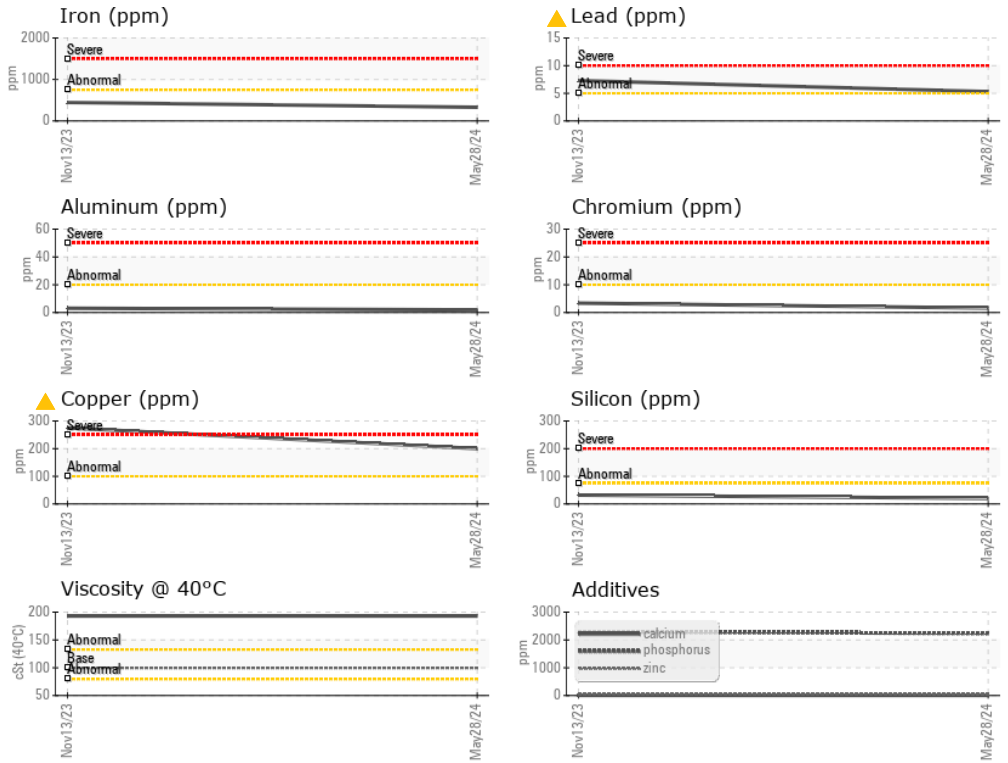
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>LIGHT</b>	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>193</b>	193

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.** : WC0932661  
**Lab Number** : **02647186**  
**Unique Number** : 5812738  
**Test Package** : MOBCE

**RONI/IRON SHORE EXCAVATING LTD.**  
 100 MACINTOSH BLVD  
 VAUGHAN, ON  
 CA L4K 4P3  
 Contact: Service Team  
 service.team@roni.ca

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.

T:  
F: