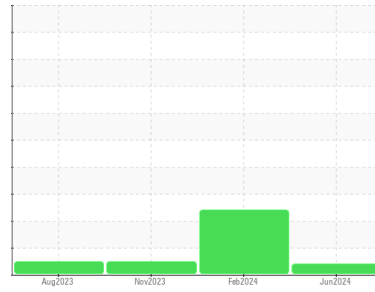




# OIL ANALYSIS REPORT

Machine Id  
**227**  
 Component  
**Front Axle**  
 Fluid  
**PETRO CANADA 30W (--- GAL)**

Sample Rating Trend



## VISCOSITY



### 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 oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. 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>WC0920721</b>	WC0899402	WC0873045
Sample Date	Client Info		<b>29 Jun 2024</b>	10 Feb 2024	09 Nov 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

### 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>172</b>	169	146
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	1	1
Nickel	ppm	ASTM D5185(m)	>10	<b>4</b>	3	4
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<b>10</b>	9	9
Tin	ppm	ASTM D5185(m)	>10	<b>0</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

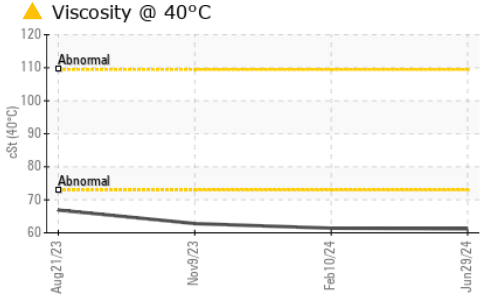
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>15</b>	13	16
Barium	ppm	ASTM D5185(m)		<b>10</b>	10	10
Molybdenum	ppm	ASTM D5185(m)		<b>6</b>	6	6
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185(m)		<b>559</b>	565	595
Calcium	ppm	ASTM D5185(m)		<b>963</b>	1000	1005
Phosphorus	ppm	ASTM D5185(m)		<b>1310</b>	1326	1421
Zinc	ppm	ASTM D5185(m)		<b>1185</b>	1181	1248
Sulfur	ppm	ASTM D5185(m)		<b>3040</b>	3412	3496
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>11</b>	13	11
Sodium	ppm	ASTM D5185(m)		<b>7</b>	8	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	1



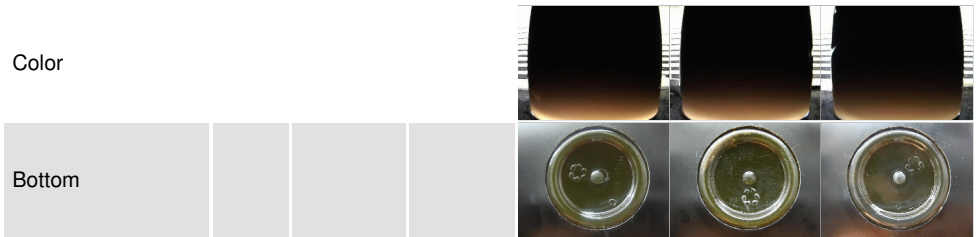
# OIL ANALYSIS REPORT



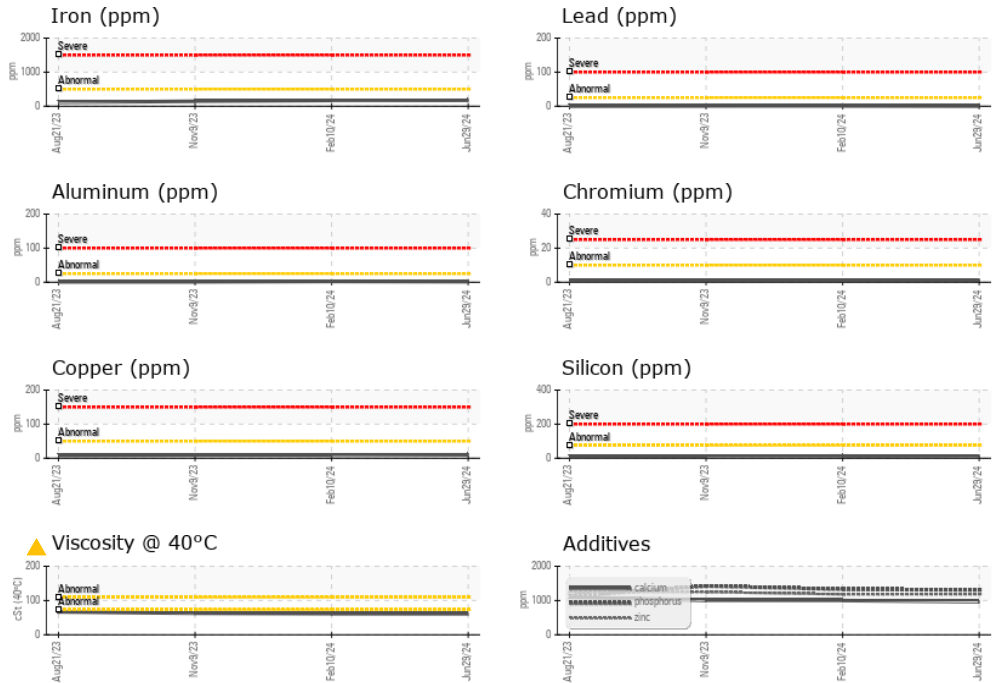
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	.2%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 61.2	▲ 61.4	62.8

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0920721  
**Lab Number** : 02647174  
**Unique Number** : 5812726  
**Test Package** : MOBCE  
**Received** : 10 Jul 2024  
**Tested** : 10 Jul 2024  
**Diagnosed** : 11 Jul 2024 - Kevin Marson

**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.