

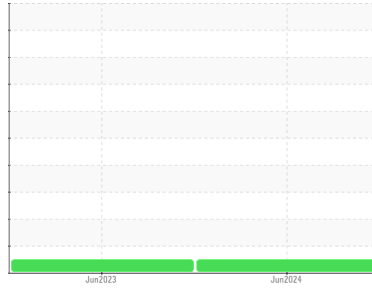


# OIL ANALYSIS REPORT



Area  
**ORIN CONTRACTORS**  
 Machine Id  
**366**  
 Component  
**Hydraulic System**  
 Fluid  
**PETRO CANADA 10W (--- GAL)**

### Sample Rating Trend



**NORMAL**



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0932553</b>	LH0256897	---
Sample Date	Client Info		<b>29 Jun 2024</b>	19 Jun 2023	---
Machine Age	hrs	Client Info	<b>0</b>	6188	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

### CONTAMINATION

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

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	0	---
Iron	ppm	ASTM D5185(m) >20	<b>22</b>	21	---
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185(m) >10	<b>3</b>	2	---
Lead	ppm	ASTM D5185(m) >10	<b>1</b>	2	---
Copper	ppm	ASTM D5185(m) >75	<b>4</b>	4	---
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)	<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

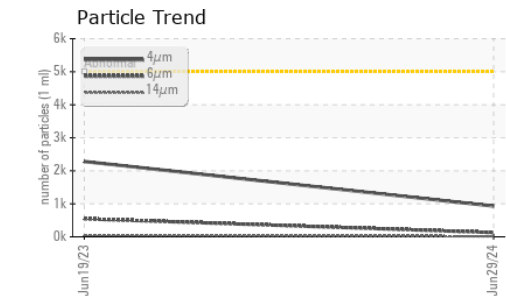
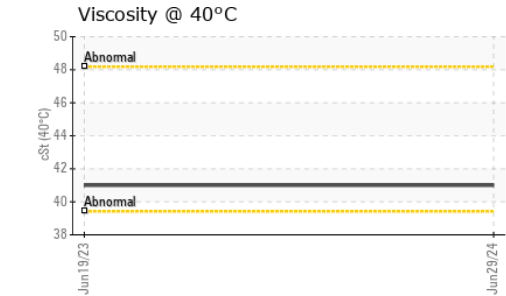
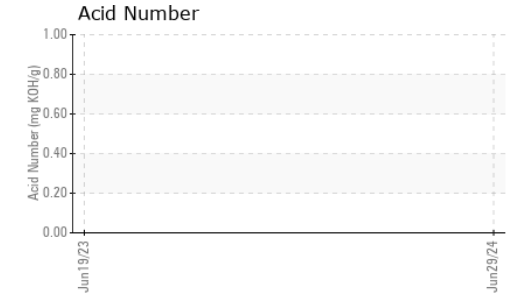
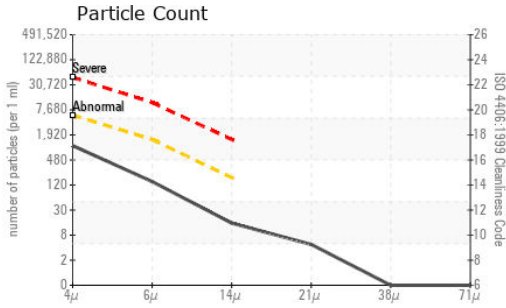
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>1</b>	<1	---
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	<b>79</b>	79	---
Calcium	ppm	ASTM D5185(m)	<b>345</b>	339	---
Phosphorus	ppm	ASTM D5185(m)	<b>728</b>	780	---
Zinc	ppm	ASTM D5185(m)	<b>916</b>	900	---
Sulfur	ppm	ASTM D5185(m)	<b>1679</b>	1680	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<b>12</b>	12	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	1	---
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	2	---



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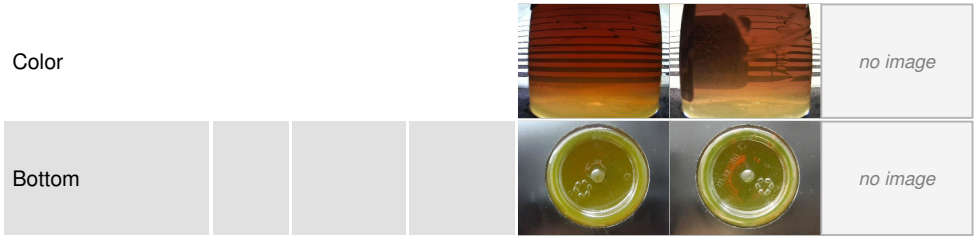
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>931</b>	2281	---
Particles >6µm	ASTM D7647	>1300	<b>128</b>	545	---
Particles >14µm	ASTM D7647	>160	<b>13</b>	52	---
Particles >21µm	ASTM D7647	>40	<b>4</b>	14	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/14/11</b>	18/16/13	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.80</b>	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>NONE</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*	>0.1	<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)	<b>41.0</b>	41.0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0932553  
**Lab Number** : **02647038**  
**Unique Number** : 5812590  
**Test Package** : MOBCE ( Additional Tests: PQ )

**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.