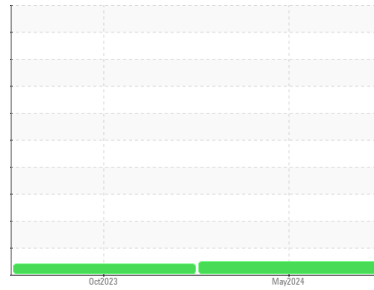




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**ORIN CONTRACTORS**  
 Machine Id  
**100-007**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA 15W40 (--- GAL)**

## 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>WC0932653</b>	LH0275202	---
Sample Date	Client Info		<b>28 May 2024</b>	17 Oct 2023	---
Machine Age	hrs	Client Info	<b>0</b>	2632	---
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
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	1.3	---
Water	WC Method	>0.1	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>11</b>	8	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
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>2</b>	13	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	60	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>1003</b>	906	---
Calcium	ppm	ASTM D5185(m)		<b>1074</b>	1164	---
Phosphorus	ppm	ASTM D5185(m)		<b>1015</b>	986	---
Zinc	ppm	ASTM D5185(m)		<b>1235</b>	1208	---
Sulfur	ppm	ASTM D5185(m)		<b>2514</b>	2499	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

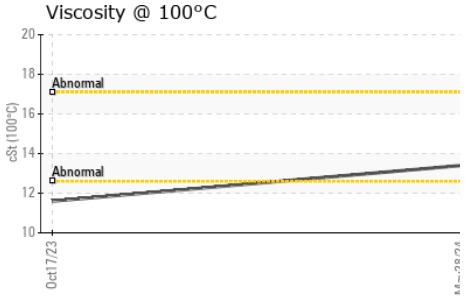
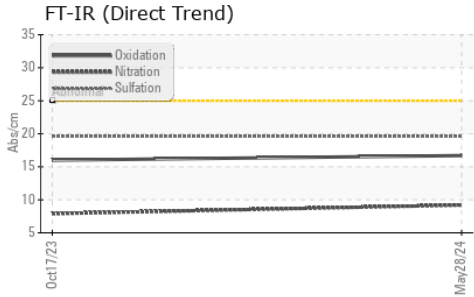
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	3	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	7.9	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>19.6</b>	19.6	---



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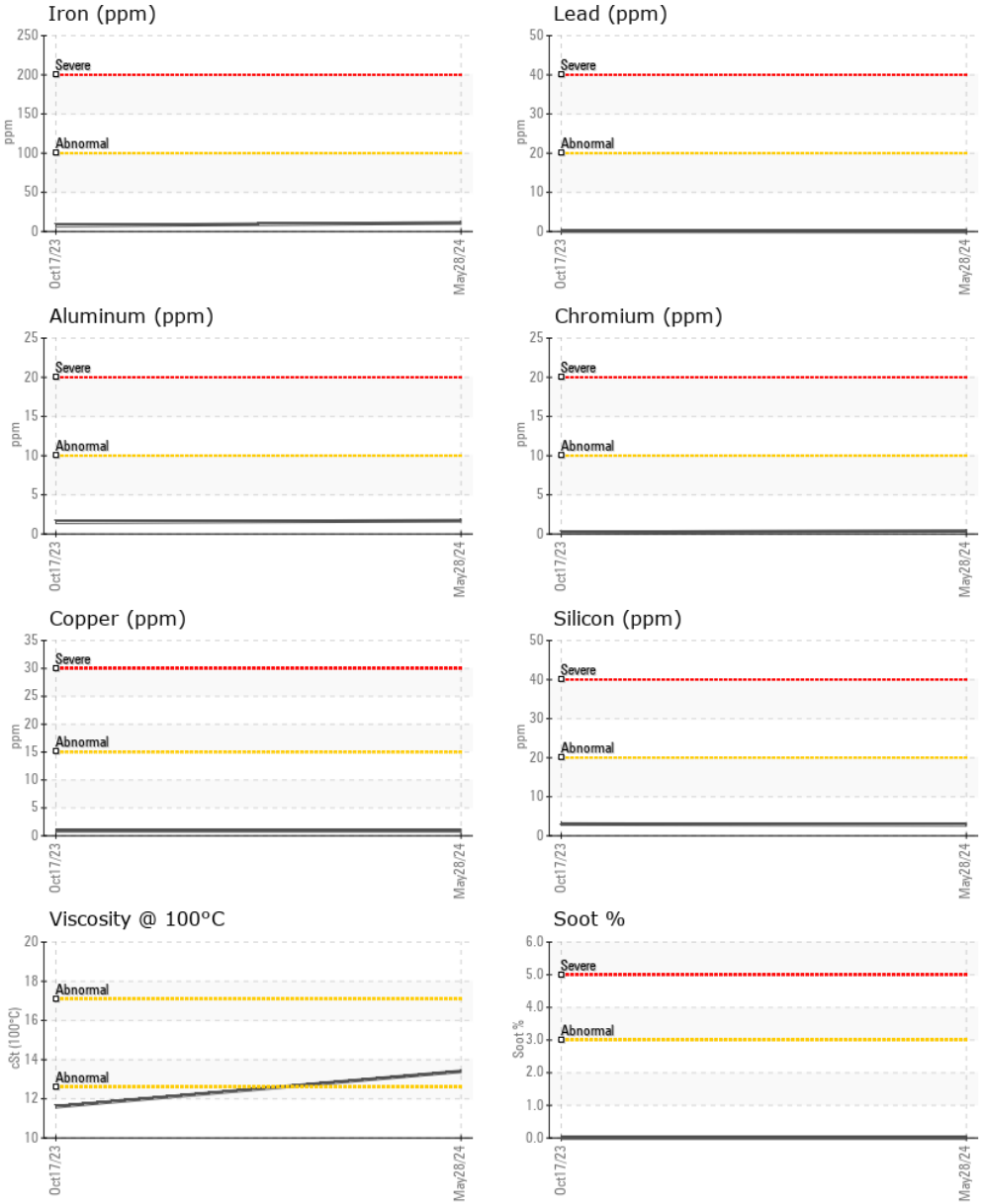


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>16.7</b>	16.0	---

VISUAL	method	limit/base	current	history1	history2	
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 @ 100°C	cSt	ASTM D7279(m)	<b>13.4</b>	▲ 11.6	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0932653  
**Lab Number** : 02646962  
**Unique Number** : 5812514  
**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.