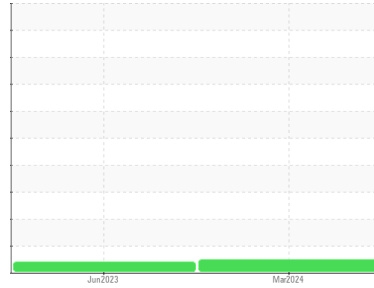




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**RONI**  
 Machine Id  
**184**  
 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>WC0920805</b>	LH0261448	---
Sample Date	Client Info		<b>23 Mar 2024</b>	27 Jun 2023	---
Machine Age	hrs	Client Info	<b>0</b>	5561	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	1	---
Water	WC Method	>0.2	<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>68</b>	88	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m) >330	<b>4</b>	5	---
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	---
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>	8	---
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	<b>62</b>	57	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	<b>1015</b>	936	---
Calcium	ppm	ASTM D5185(m)	<b>1098</b>	1114	---
Phosphorus	ppm	ASTM D5185(m)	<b>1046</b>	1084	---
Zinc	ppm	ASTM D5185(m)	<b>1234</b>	1227	---
Sulfur	ppm	ASTM D5185(m)	<b>2563</b>	2594	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

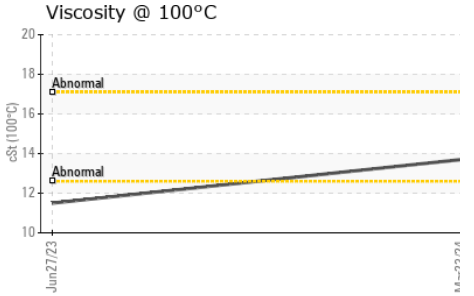
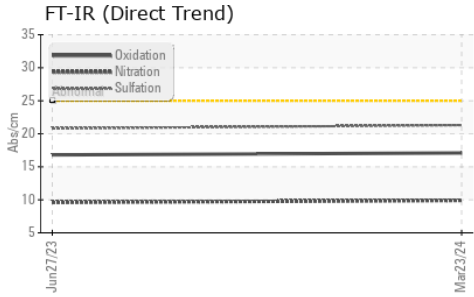
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	4	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.7</b>	0.7	---
Nitration	Abs/cm	ASTM D7624* >20	<b>9.9</b>	9.6	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>21.3</b>	20.8	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	17.1	16.8

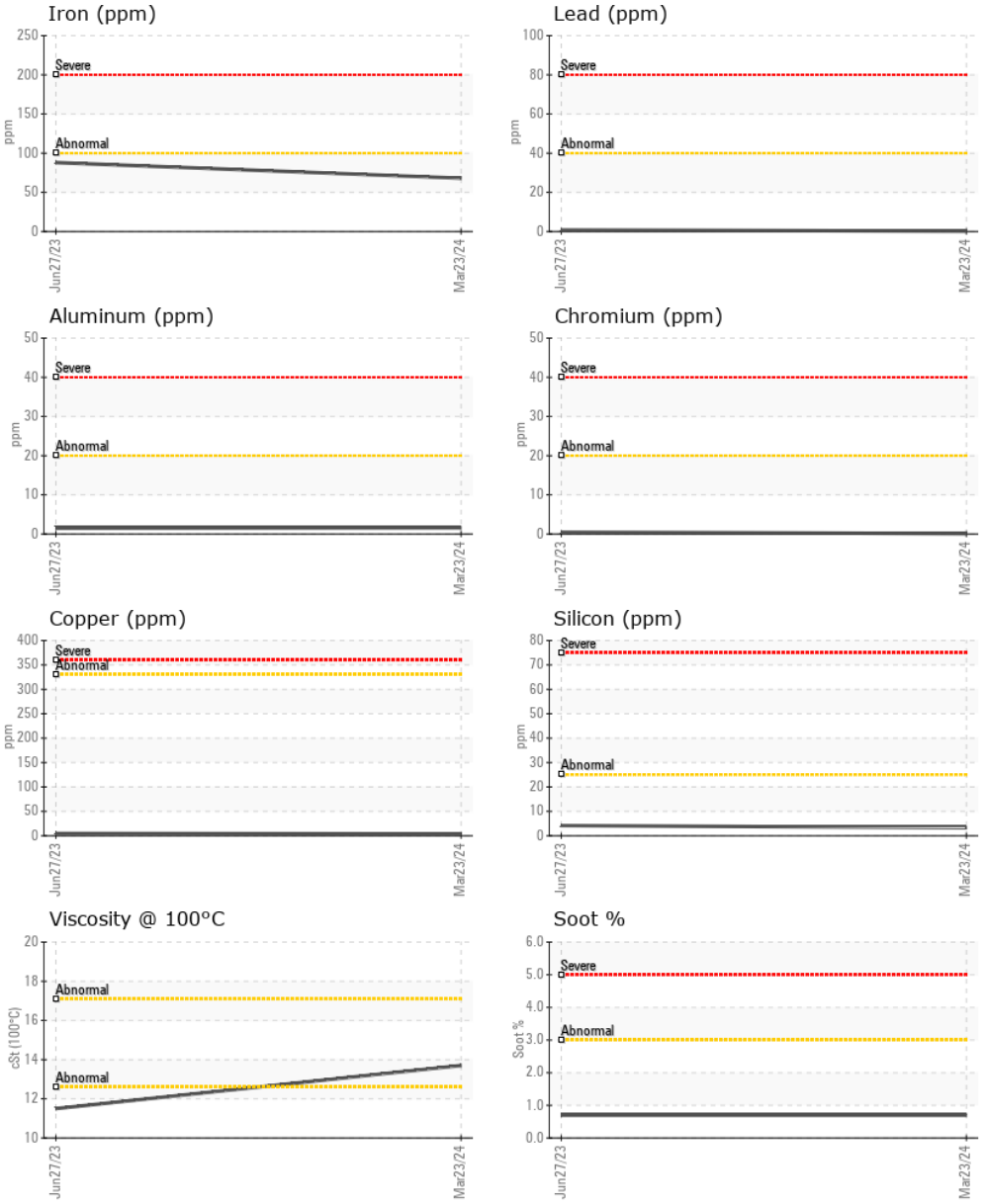
### VISUAL

	method	limit/base	current	history1	history2
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 @ 100°C	cSt	ASTM D7279(m)	<b>13.7</b>	▲ 11.5	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0920805  
**Lab Number** : 02629143  
**Unique Number** : 5762275  
**Test Package** : MOBCE  
**Received** : 16 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Wes Davis

**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.