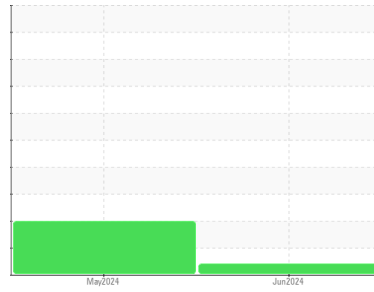




# OIL ANALYSIS REPORT

Area  
**ORIN CONTRACTORS**  
 Machine Id  
**229**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA 15W40 (--- GAL)**

Sample Rating Trend



## VISCOSITY



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

#### Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. 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>WC0932549</b>	WC0932636	---
Sample Date	Client Info		<b>28 Jun 2024</b>	23 May 2024	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
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>16</b>	17	---
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	0	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</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>14</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	13	---
Tin	ppm	ASTM D5185(m)	>15	<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>	2	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	3	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185(m)		<b>1017</b>	67	---
Calcium	ppm	ASTM D5185(m)		<b>1061</b>	2230	---
Phosphorus	ppm	ASTM D5185(m)		<b>1048</b>	869	---
Zinc	ppm	ASTM D5185(m)		<b>1232</b>	1007	---
Sulfur	ppm	ASTM D5185(m)		<b>2657</b>	2975	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

### CONTAMINANTS

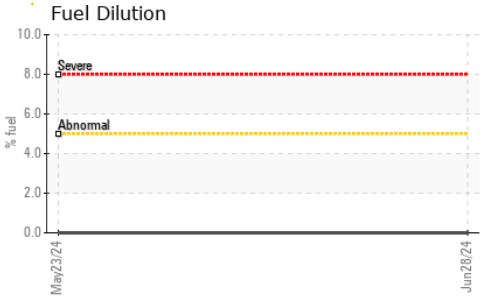
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	▲ 30	---
Sodium	ppm	ASTM D5185(m)		<b>1</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Fuel	%	ASTM D7593*	>5	<b>0.0</b>	0.0	---

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.9</b>	7.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.7</b>	18.0	---



# OIL ANALYSIS REPORT

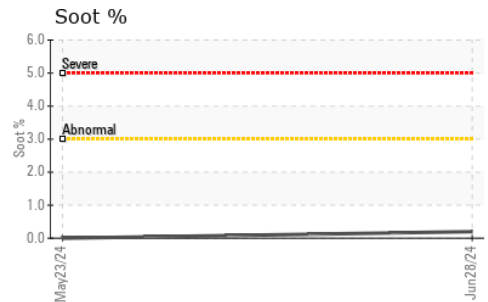
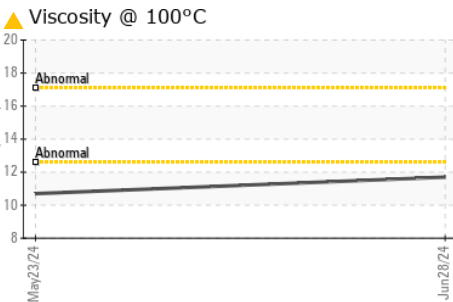
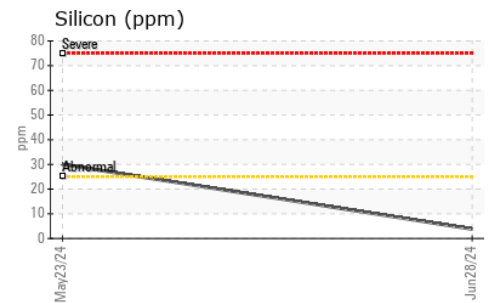
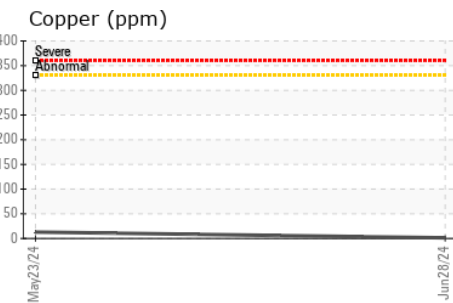
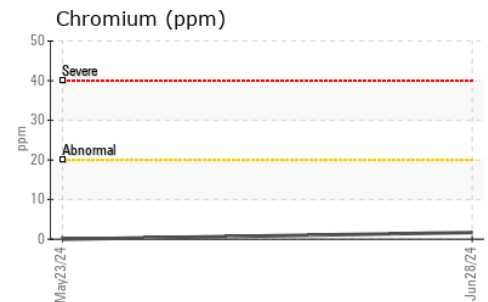
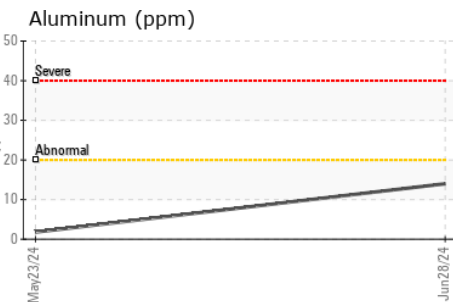
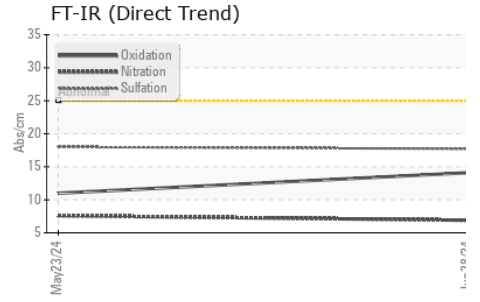
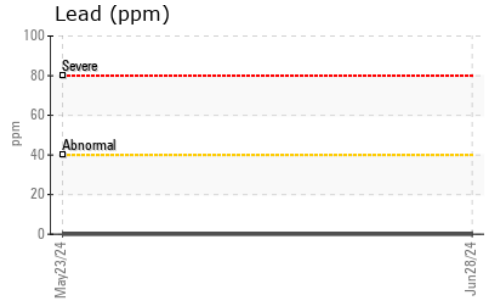
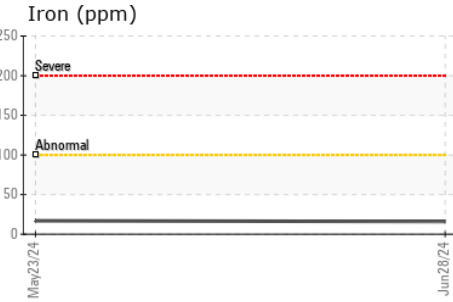
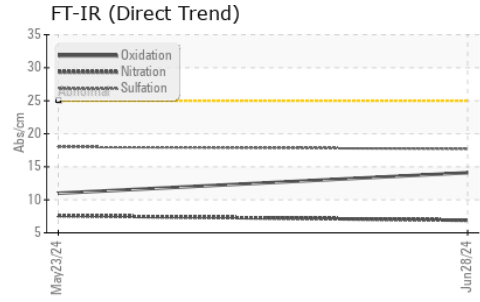


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.1</b>	11.0	---

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>▲ 11.7</b>	▲ 10.7	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0932549      **Received** : 10 Jul 2024  
**Lab Number** : **02646954**      **Tested** : 11 Jul 2024  
**Unique Number** : 5812506      **Diagnosed** : 11 Jul 2024 - Kevin Marson  
**Test Package** : MOBCE ( Additional Tests: FuelDilution, PercentFuel )

**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.