



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**RONI**  
 Machine Id  
**154**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA 10W30 (--- 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>WC0888446</b>	---	---
Sample Date	Client Info			<b>28 Nov 2023</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>13</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>6</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

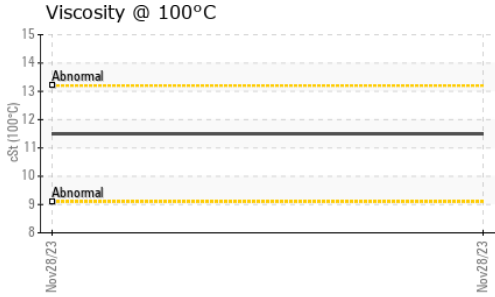
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>8</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>55</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>862</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1226</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1008</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1206</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2827</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.6</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>20.3</b>	---	---



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### FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Abs./1mm	ASTM D7414*	>25	---	---

### VISUAL

Method	Limit/Base	Current	History1	History2
scalar	Visual*	>0.2	---	---
scalar	Visual*	<b>NEG</b>	---	---

### FLUID PROPERTIES

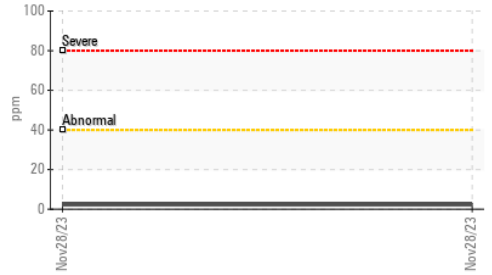
Method	Limit/Base	Current	History1	History2
cSt	ASTM D7279(m)	<b>11.5</b>	---	---

### GRAPHS

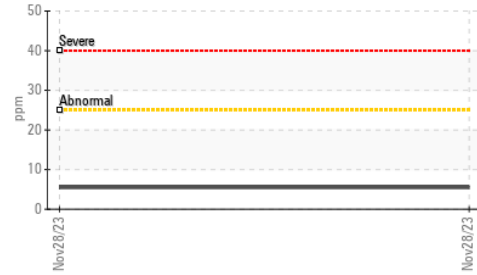
**Iron (ppm)**



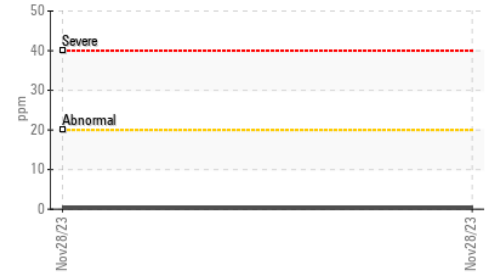
**Lead (ppm)**



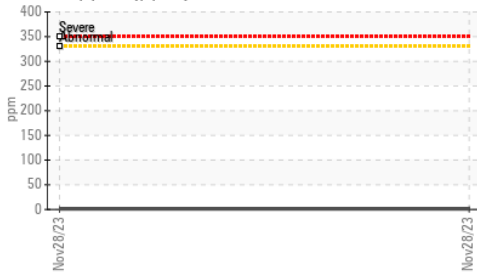
**Aluminum (ppm)**



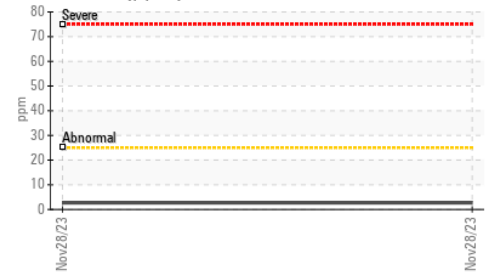
**Chromium (ppm)**



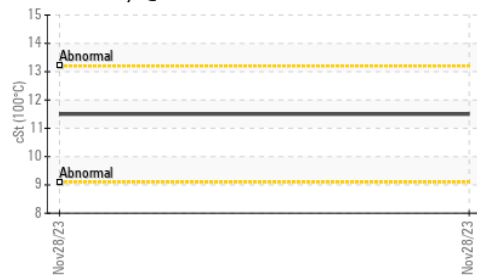
**Copper (ppm)**



**Silicon (ppm)**



**Viscosity @ 100°C**



**Soot %**



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**  
**Sample No.** : WC0888446 **Received** : 08 Jan 2024 **100 MACINTOSH BLVD**  
**Lab Number** : **02606907** **Diagnosed** : 08 Jan 2024 **VAUGHAN, ON**  
**Unique Number** : 5707993 **Diagnostician** : Wes Davis **CA L4K 4P3**  
**Test Package** : MOBCE **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.