



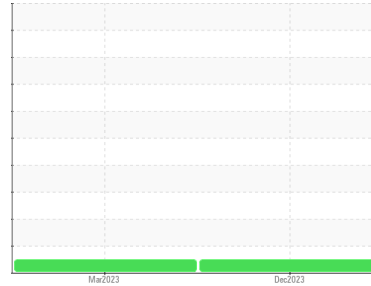
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**ORIN CONTRACTORS**  
 Machine Id  
**165**  
 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>WC0888491</b>	LH0228957	---
Sample Date	Client Info		<b>22 Dec 2023</b>	01 Mar 2023	---
Machine Age	hrs	Client Info	<b>0</b>	2000	---
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
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
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>8</b>	11	---
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >25	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	---
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>3</b>	8	---
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	<b>54</b>	54	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	<b>886</b>	903	---
Calcium	ppm	ASTM D5185(m)	<b>973</b>	1074	---
Phosphorus	ppm	ASTM D5185(m)	<b>938</b>	1028	---
Zinc	ppm	ASTM D5185(m)	<b>1115</b>	1142	---
Sulfur	ppm	ASTM D5185(m)	<b>2527</b>	2480	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

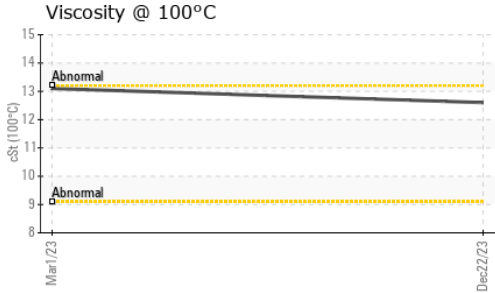
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>2</b>	2	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	2	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.2</b>	0.1	---
Nitration	Abs/cm	ASTM D7624* >20	<b>8.3</b>	9.3	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>18.6</b>	21.2	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	16.0	16.7

### VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	---

### FLUID PROPERTIES

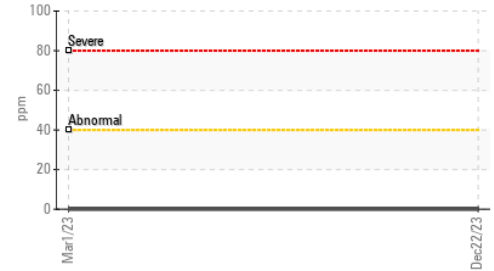
	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.6	13.1	---

### GRAPHS

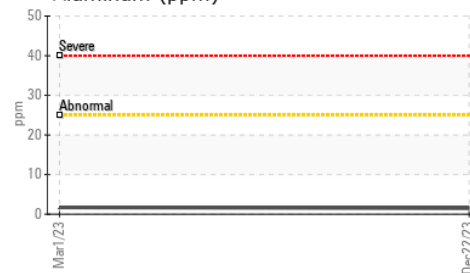
Iron (ppm)



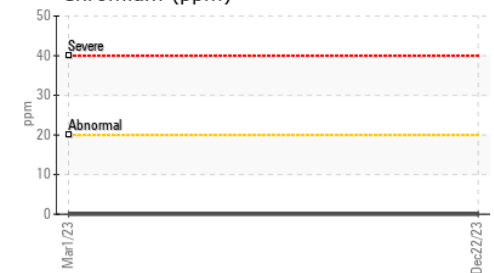
Lead (ppm)



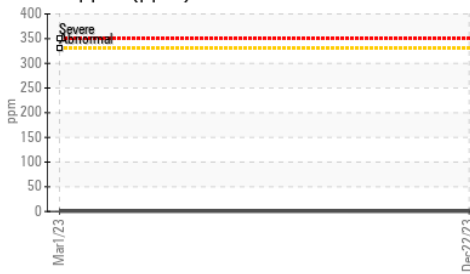
Aluminum (ppm)



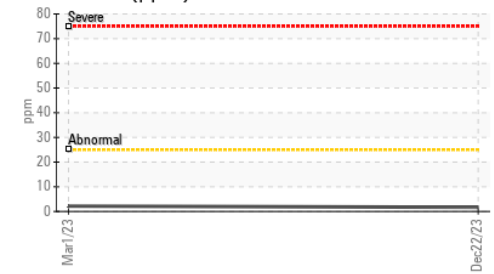
Chromium (ppm)



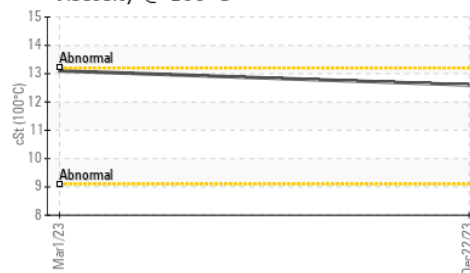
Copper (ppm)



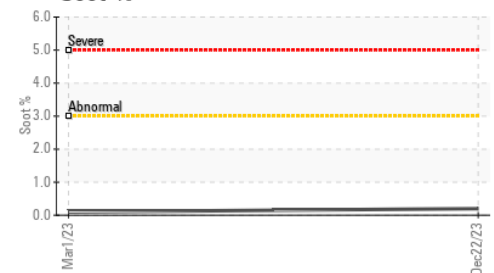
Silicon (ppm)



Viscosity @ 100°C



Soot %



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**  
**Sample No.** : WC0888491 **Recieved** : 08 Jan 2024 **100 MACINTOSH BLVD**  
**Lab Number** : 02606908 **Diagnosed** : 08 Jan 2024 **VAUGHAN, ON**  
**Unique Number** : 5707994 **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.

T:  
F: