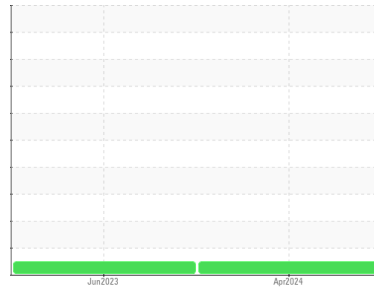




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**RONI**  
 Machine Id  
**172**

Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SAE 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

Viscosity of sample indicates oil is within SAE 40 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>WC0920882</b>	LH0256967	---
Sample Date	Client Info		<b>05 Apr 2024</b>	01 Jun 2023	---
Machine Age	hrs	Client Info	<b>0</b>	6972	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	0.5	---
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>23</b>	38	---
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	3	---
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
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>3</b>	3	---
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>	<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)	1	<b>6</b>	11	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	1	<b>66</b>	66	---
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	10	<b>1085</b>	994	---
Calcium	ppm	ASTM D5185(m)	2942	<b>1183</b>	1394	---
Phosphorus	ppm	ASTM D5185(m)	1102	<b>1083</b>	1192	---
Zinc	ppm	ASTM D5185(m)	1351	<b>1287</b>	1322	---
Sulfur	ppm	ASTM D5185(m)	3903	<b>2662</b>	2712	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

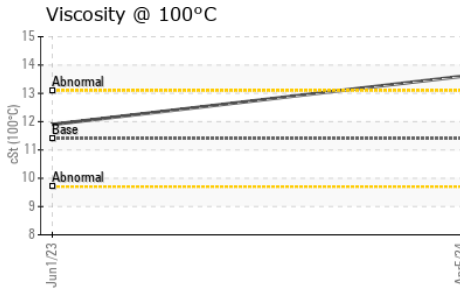
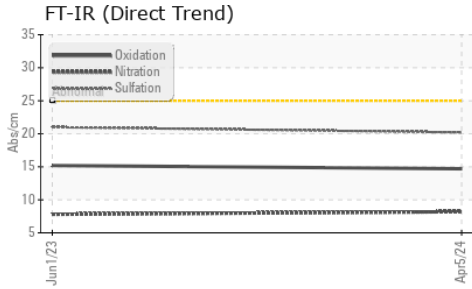
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>6</b>	10	---
Sodium	ppm	ASTM D5185(m)		<b>1</b>	2	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	0.9	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.2</b>	7.8	---
Sulfation	Abs.1mm	ASTM D7415*	>30	<b>20.2</b>	21.0	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	14.7	15.2

### VISUAL

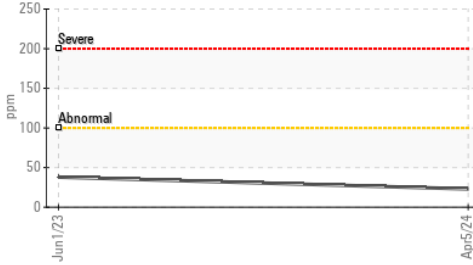
	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

### FLUID PROPERTIES

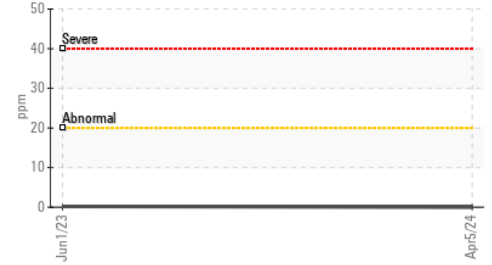
	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	<b>13.6</b>	11.9

### GRAPHS

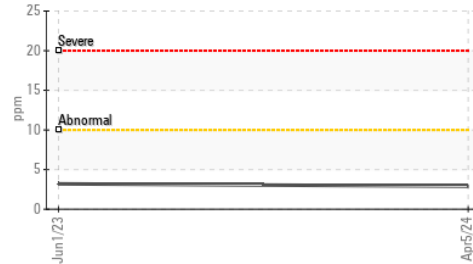
Iron (ppm)



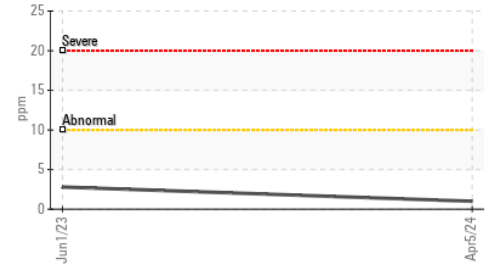
Lead (ppm)



Aluminum (ppm)



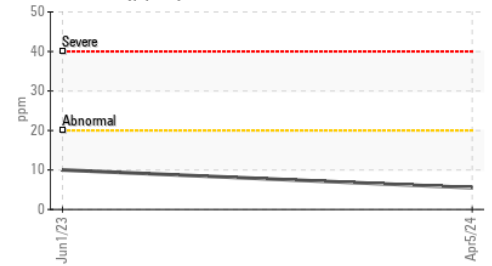
Chromium (ppm)



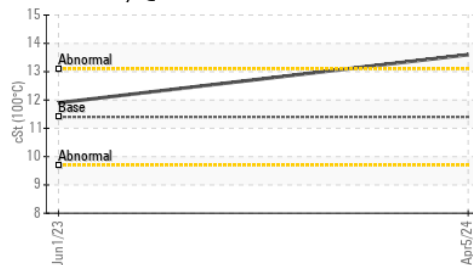
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**  
**Sample No.** : WC0920882 **Received** : 16 Apr 2024 100 MACINTOSH BLVD  
**Lab Number** : **02629161** **Tested** : 16 Apr 2024 VAUGHAN, ON  
**Unique Number** : 5762293 **Diagnosed** : 17 Apr 2024 - Kevin Marson CA L4K 4P3  
**Test Package** : MOBCE

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.

Contact: Service Team  
service.team@roni.ca

T:  
F: