



# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area  
**ORIN CONTRACTORS**

Machine Id  
**880**

Component  
**Right Final Drive**

Fluid  
**PETRO CANADA TRAXON 80W90 (--- GAL)**



## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

### Wear

Chromium ppm levels are abnormal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0899523</b>	---	---
Sample Date	Client Info	<b>23 Feb 2024</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>ABNORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.075	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>750	<b>130</b>	---	---
Chromium ppm ASTM D5185(m)	>9	<b>▲ 13</b>	---	---
Nickel ppm ASTM D5185(m)	>10	<b>2</b>	---	---
Titanium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Silver ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Aluminum ppm ASTM D5185(m)	>40	<b>18</b>	---	---
Lead ppm ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Copper ppm ASTM D5185(m)	>40	<b>3</b>	---	---
Tin ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Antimony ppm ASTM D5185(m)	>5	<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)	243	<b>120</b>	---	---
Barium ppm ASTM D5185(m)	1	<b>&lt;1</b>	---	---
Molybdenum ppm ASTM D5185(m)		<b>1</b>	---	---
Manganese ppm ASTM D5185(m)		<b>2</b>	---	---
Magnesium ppm ASTM D5185(m)	2	<b>82</b>	---	---
Calcium ppm ASTM D5185(m)	6	<b>145</b>	---	---
Phosphorus ppm ASTM D5185(m)	987	<b>834</b>	---	---
Zinc ppm ASTM D5185(m)	1	<b>291</b>	---	---
Sulfur ppm ASTM D5185(m)	21530	<b>13623</b>	---	---
Lithium ppm ASTM D5185(m)		<b>2</b>	---	---

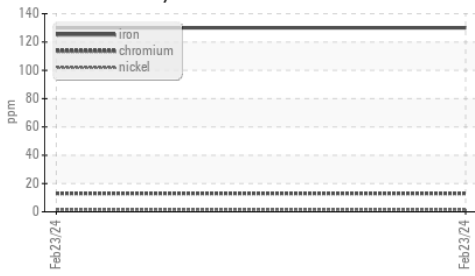
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>75	<b>74</b>	---	---
Sodium ppm ASTM D5185(m)	>51	<b>6</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>8</b>	---	---



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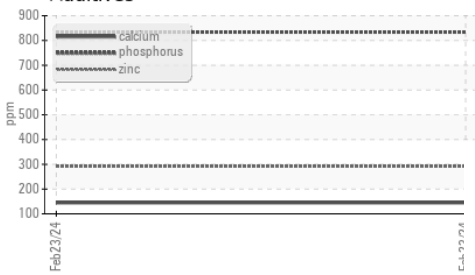
### ▲ Ferrous Alloys



### Viscosity @ 40°C



### Additives



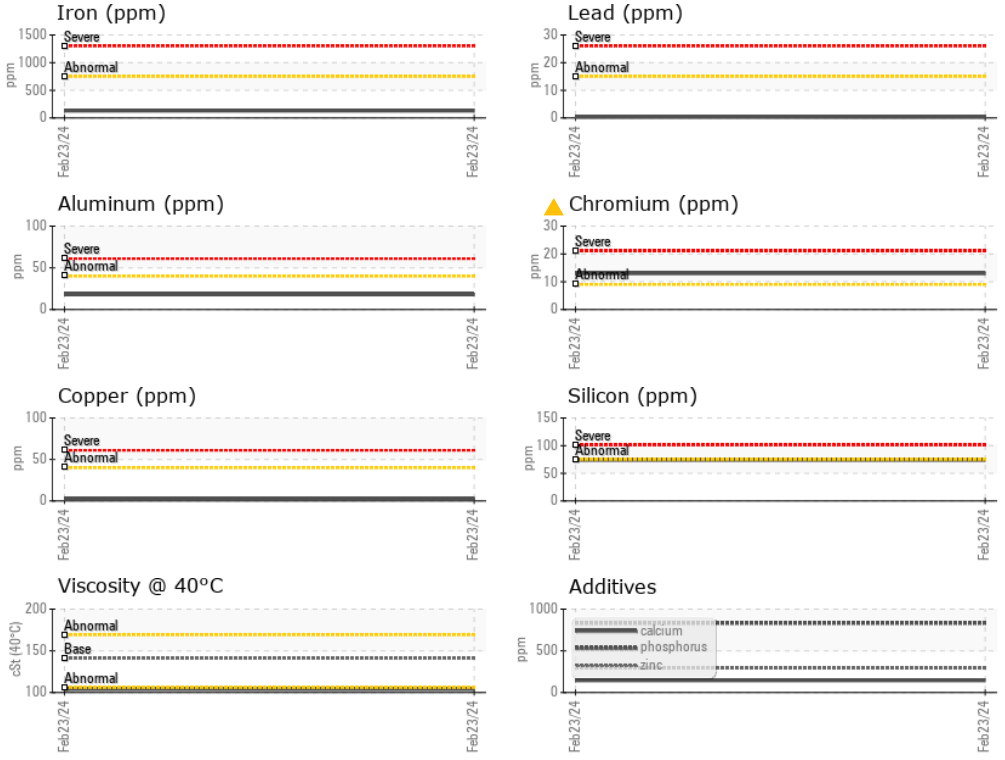
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.075	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	104	---	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0899523  
**Lab Number** : 02621180  
**Unique Number** : 5746299  
**Test Package** : MOBCE ( Additional Tests: Visual )

**RONI/IRON SHORE EXCAVATING LTD.**  
 100 MACINTOSH BLVD  
 VAUGHAN, ON  
 CA L4K 4P3  
 Contact: Service Team  
 service.team@roni.ca

Received : 11 Mar 2024  
 Tested : 11 Mar 2024  
 Diagnosed : 12 Mar 2024 - Kevin Marson  
 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.