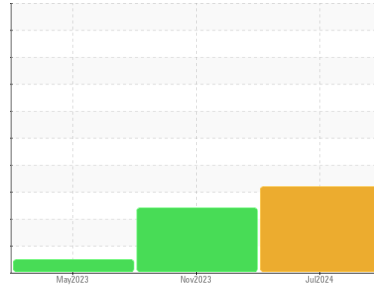




# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area  
**RONI**  
 Machine Id  
**175**  
 Component  
**Right Final Drive**  
 Fluid  
**PETRO CANADA TRAXON 80W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Iron ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

### Fluid Condition

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>WC0952982</b>	WC0873033	LH0261725
Sample Date	Client Info	<b>03 Jul 2024</b>	17 Nov 2023	18 May 2023
Machine Age	hrs	Client Info	0	5581
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Changed	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>131</b>	160	---
Iron	ppm ASTM D5185(m) >500	<b>688</b>	717	333
Chromium	ppm ASTM D5185(m) >10	<b>8</b>	8	4
Nickel	ppm ASTM D5185(m) >10	<b>4</b>	4	3
Titanium	ppm ASTM D5185(m)	<b>5</b>	6	4
Silver	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Aluminum	ppm ASTM D5185(m) >25	<b>102</b>	115	77
Lead	ppm ASTM D5185(m) >25	<b>0</b>	<1	0
Copper	ppm ASTM D5185(m) >50	<b>1</b>	2	<1
Tin	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	<1
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

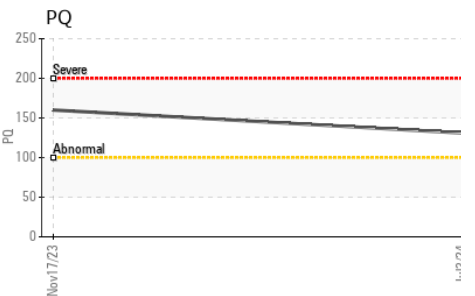
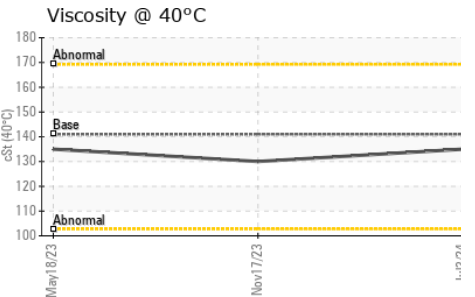
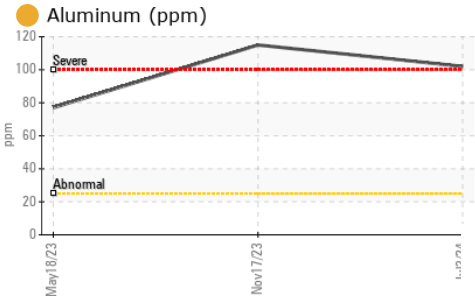
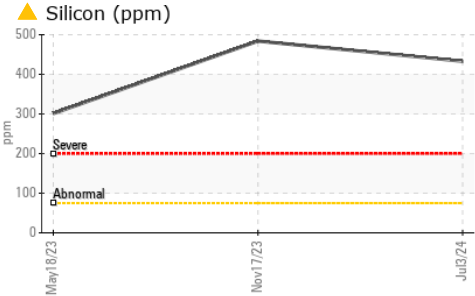
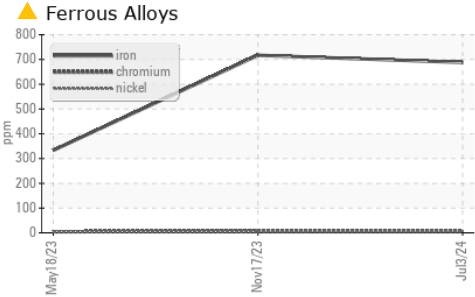
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 243	<b>196</b>	182	213
Barium	ppm ASTM D5185(m) 1	<b>1</b>	<1	0
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>9</b>	8	5
Magnesium	ppm ASTM D5185(m) 2	<b>44</b>	109	32
Calcium	ppm ASTM D5185(m) 6	<b>252</b>	332	189
Phosphorus	ppm ASTM D5185(m) 987	<b>1039</b>	1054	1140
Zinc	ppm ASTM D5185(m) 1	<b>19</b>	102	9
Sulfur	ppm ASTM D5185(m) 21530	<b>19393</b>	18100	20004
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >75	<b>433</b>	484	301
Sodium	ppm ASTM D5185(m)	<b>22</b>	23	15
Potassium	ppm ASTM D5185(m) >20	<b>50</b>	50	33



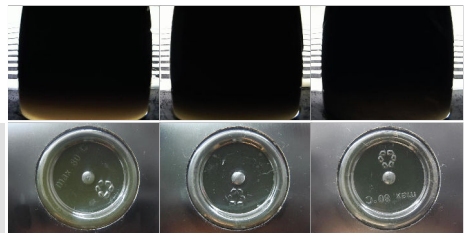
# OIL ANALYSIS REPORT



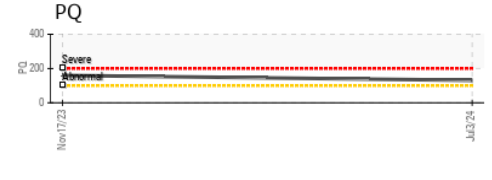
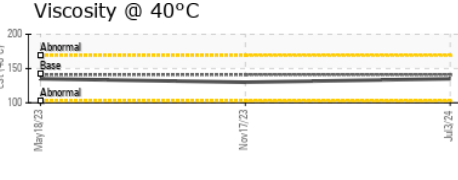
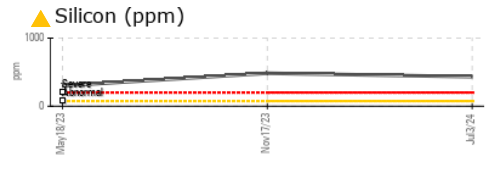
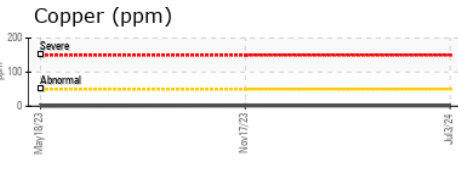
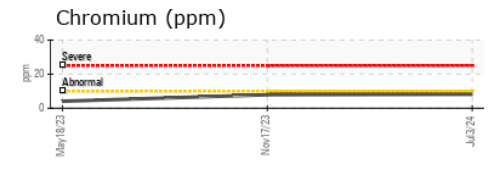
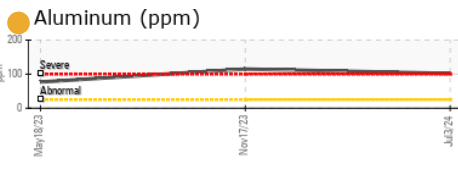
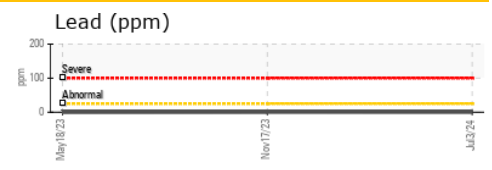
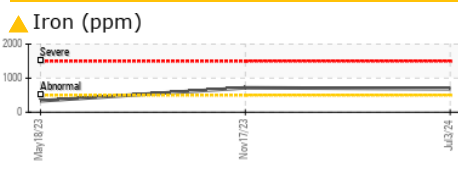
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	LIGHT	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	135	130

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**  
**Sample No.** : WC0952982 **Received** : 10 Jul 2024 **100 MACINTOSH BLVD**  
**Lab Number** : **02647192** **Tested** : 11 Jul 2024 **VAUGHAN, ON**  
**Unique Number** : 5812744 **Diagnosed** : 11 Jul 2024 - Kevin Marson **CA L4K 4P3**  
**Test Package** : MOBCE ( Additional Tests: PQ ) **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.