



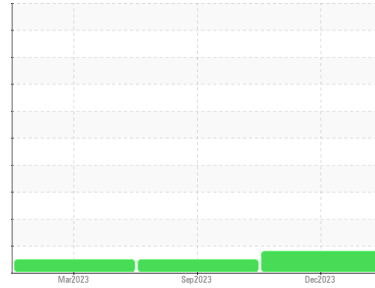
# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**



Area  
**RONI**  
 Machine Id  
**453**  
 Component  
**Rear Left Final Drive**  
 Fluid  
**PETRO CANADA 30W (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### ▲ Wear

Nickel ppm levels are marginal. All other 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>WC0888429</b>	LH0275400	LH0228979
Sample Date	Client Info		<b>20 Dec 2023</b>	02 Sep 2023	02 Mar 2023
Machine Age	hrs	Client Info	<b>0</b>	2565	2000
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>MARGINAL</b>	NORMAL	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	
Iron	ppm	ASTM D5185(m)	>800	<b>97</b>	65	79
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>5	<b>▲ 5</b>	3	4
Titanium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>75	<b>2</b>	1	1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>75	<b>13</b>	9	5
Tin	ppm	ASTM D5185(m)	>8	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)	>50	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
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)		<b>4</b>	5	14
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185(m)		<b>1</b>	1	3
Magnesium	ppm	ASTM D5185(m)		<b>706</b>	737	111
Calcium	ppm	ASTM D5185(m)		<b>1413</b>	1434	2886
Phosphorus	ppm	ASTM D5185(m)		<b>1533</b>	1699	1167
Zinc	ppm	ASTM D5185(m)		<b>1232</b>	1259	1248
Sulfur	ppm	ASTM D5185(m)		<b>3463</b>	3513	4854
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

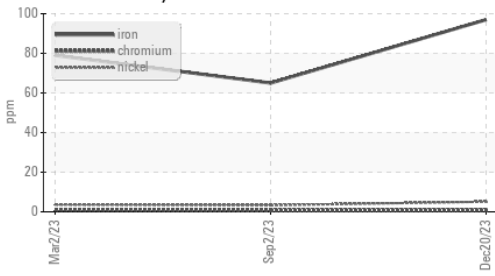
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>400	<b>5</b>	7	7
Sodium	ppm	ASTM D5185(m)		<b>3</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	<1

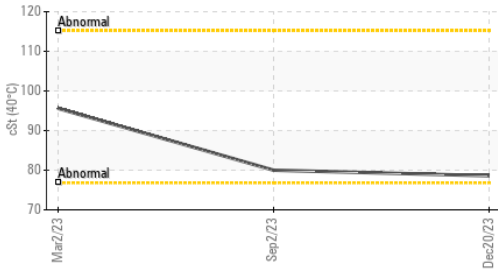


# OIL ANALYSIS REPORT

### ▲ Ferrous Alloys



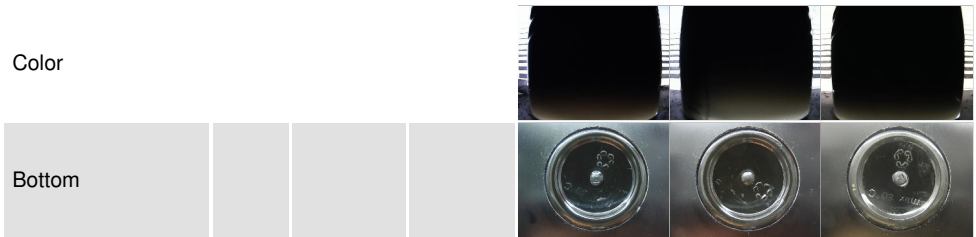
### Viscosity @ 40°C



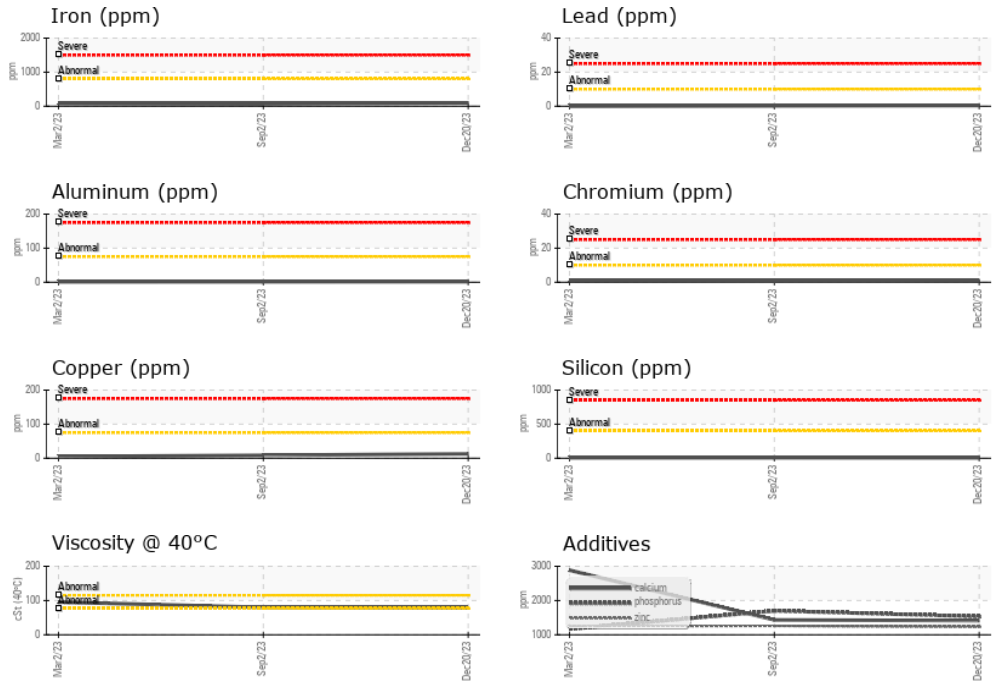
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	<b>78.6</b>	80.0	95.6

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**  
**Sample No.** : WC0888429 **Received** : 27 Dec 2023 **100 MACINTOSH BLVD**  
**Lab Number** : **02605454** **Diagnosed** : 28 Dec 2023 **VAUGHAN, ON**  
**Unique Number** : 5698539 **Diagnostician** : Kevin Marson **CA L4K 4P3**  
**Test Package** : MOBCE ( Additional Tests: Visual ) **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.