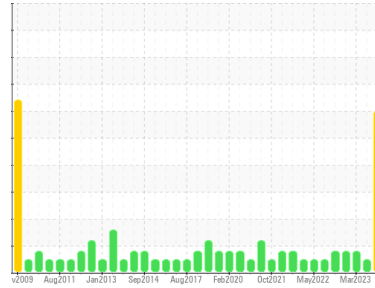




# PROBLEM SUMMARY

Sample Rating Trend



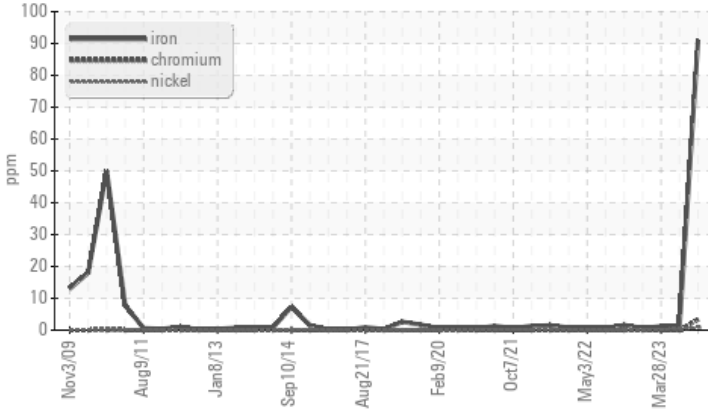
WEAR



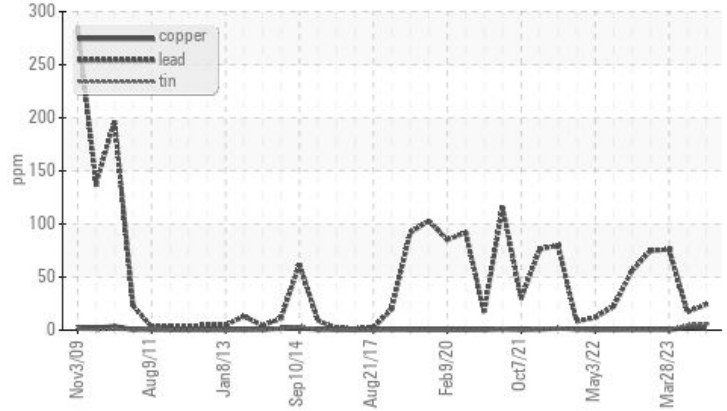
Area **STRATH**  
Machine Id **BABBIT BRG PEDESTAL B ROD MILL NON DRIVE END**  
Component **Non-Drive End Bearing**  
Fluid **PETRO CANADA TURBOFLO R&O 68 (20 LTR)**

## COMPONENT CONDITION SUMMARY

### Ferrous Alloys



### Non-ferrous Metals



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>20	<b>91</b>	1	1

Customer Id: CENSUD  
Sample No.: WC0866173  
Lab Number: 02587632  
Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 17 Jul 2023 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



### 28 Mar 2023 Diag: Kevin Marson

WEAR



The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Lead ppm levels are abnormal. Bearing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



### 25 Jan 2023 Diag: Kevin Marson

WEAR



The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Lead ppm levels are abnormal. Bearing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



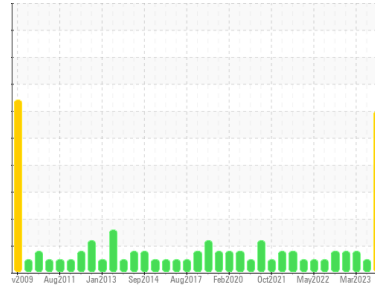


# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area  
**STRATH**  
 Machine Id  
**BABBIT BRG PEDESTAL B ROD MILL NON DRIVE END**  
 Component  
**Non-Drive End Bearing**  
 Fluid  
**PETRO CANADA TURBOFLO R&O 68 (20 LTR)**



## DIAGNOSIS

### Recommendation

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 severe. A sharp increase in the iron level is noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear. NOTE: The color of the oil is darker than previous samples.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0866173</b>	WC0828555	WC0786840
Sample Date	Client Info		<b>04 Oct 2023</b>	17 Jul 2023	28 Mar 2023
Machine Age	mths	Client Info	<b>6</b>	0	2
Oil Age	mths	Client Info	<b>6</b>	6	2
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Changed
Sample Status			<b>SEVERE</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>3</b>	---	---
Iron	ppm	ASTM D5185(m) >20	<b>91</b>	1	1
Chromium	ppm	ASTM D5185(m) >20	<b>3</b>	0	0
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m) >20	<b>24</b>	17	76
Copper	ppm	ASTM D5185(m) >20	<b>2</b>	2	<1
Tin	ppm	ASTM D5185(m) >20	<b>6</b>	5	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	5
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>&lt;1</b>	<1	0
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Phosphorus	ppm	ASTM D5185(m) 4	<b>6</b>	5	4
Zinc	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	2	<1
Sulfur	ppm	ASTM D5185(m)	<b>144</b>	144	168
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>2</b>	<1	0
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0

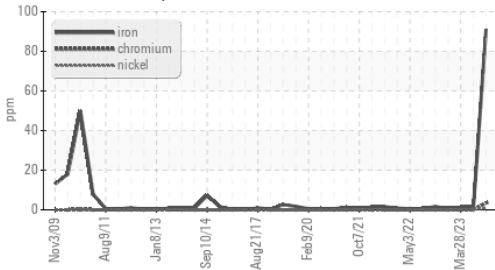
## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual* NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual* NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual* NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual* >2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

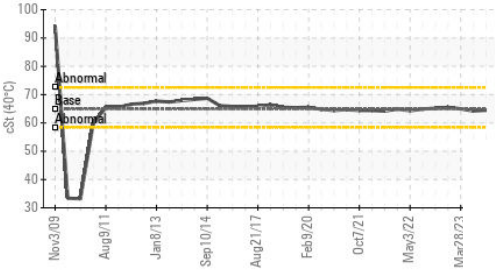


# OIL ANALYSIS REPORT

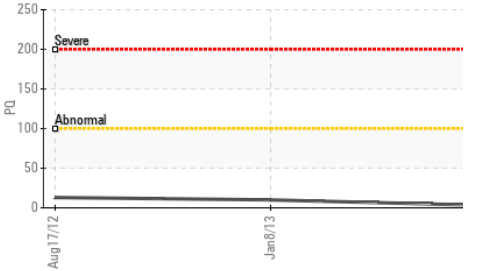
## Ferrous Alloys



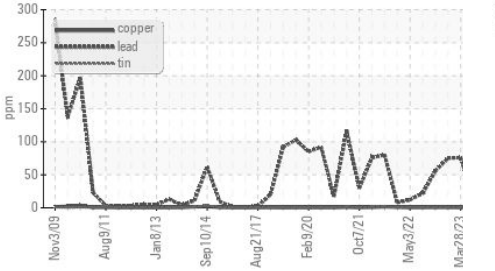
## Viscosity @ 40°C



## PQ



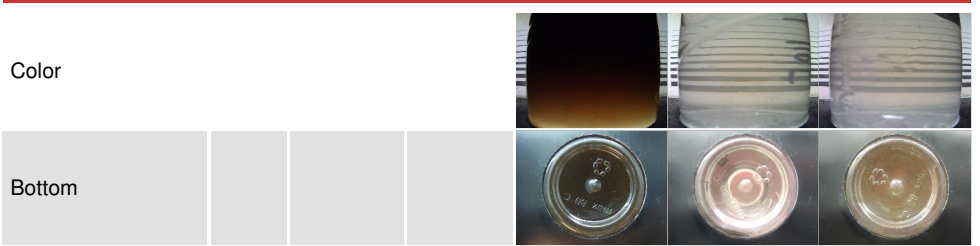
## Non-ferrous Metals



## FLUID PROPERTIES

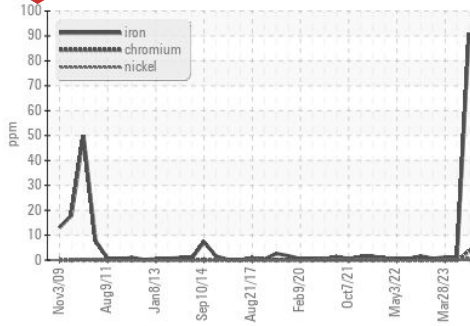
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D7279(m)	64.9	64.5	64.2	65.0

## SAMPLE IMAGES

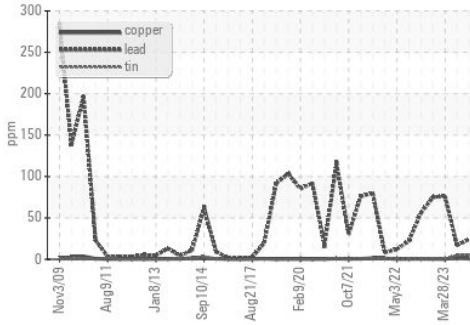


## GRAPHS

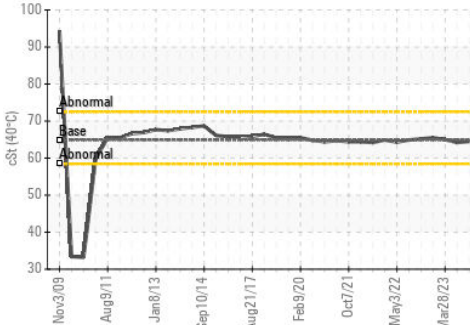
### Ferrous Alloys



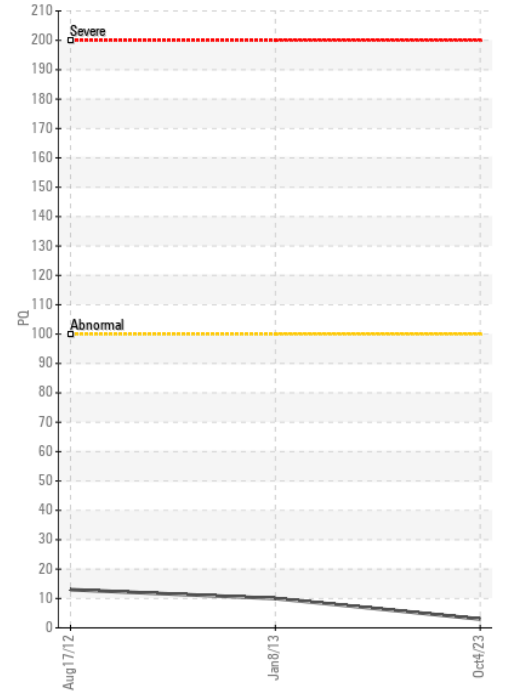
### Non-ferrous Metals



### Viscosity @ 40°C



### PQ



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Wajax - Northpoint Technical Services  
**Sample No.** : WC0866173  
**Lab Number** : 02587632  
**Unique Number** : 5656698  
**Test Package** : IND 1 ( Additional Tests: PQ )

**Received** : 06 Oct 2023  
**Diagnosed** : 10 Oct 2023  
**Diagnostician** : Kevin Marson

1108 WebbWood Drive.  
Sudbury, ON  
CA P3C 3B7  
Contact: Nick Walker  
nwalker@northpoints.com  
T: (705)499-2387  
F: (795)690-9010

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.