



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**SERVICE HOIST M1 BABBIT BEARING DRIVE END**

Component  
**Drive End Bearing**

Fluid  
**PETRO CANADA COMPRESSOR OIL 68 (--- GAL)**

## 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0828558</b>	WC0811977	WC0786833
Sample Date		Client Info		<b>11 Sep 2023</b>	04 Jul 2023	03 Feb 2023
Machine Age	mths	Client Info		<b>2</b>	0	2
Oil Age	mths	Client Info		<b>2</b>	0	2
Filter Age	mths	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	N/A
Sample Status				<b>SEVERE</b>	ABNORMAL	NORMAL

## WEAR

Tin ppm levels are severe. Antimony ppm levels are noted. Bearing wear is indicated.

Iron	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	>20	<b>2</b>	▲ 52	26
Copper	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>20	● <b>64</b>	9	4
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

The water content is negligible. There is no indication of any contamination in the oil.

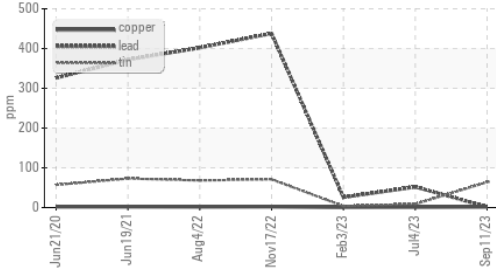
Silicon	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304*	>2	<b>0.001</b>	---	---
ppm Water	ppm	ASTM D6304*		<b>13.7</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>HAZY</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

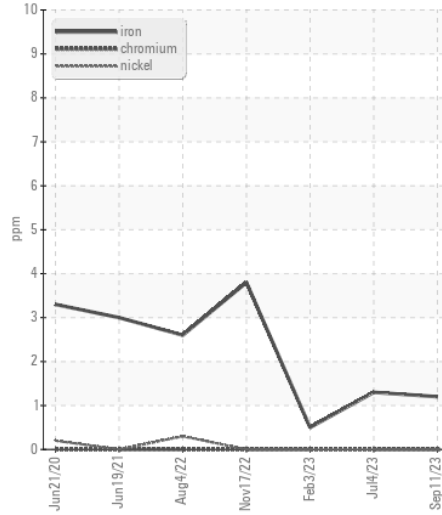
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
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>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Phosphorus	ppm	ASTM D5185(m)		<b>54</b>	50	35
Zinc	ppm	ASTM D5185(m)		<b>2</b>	2	1
Sulfur	ppm	ASTM D5185(m)		<b>1605</b>	1534	1674
Visc @ 40°C	cSt	ASTM D7279(m)	68	<b>61.9</b>	65.3	68.0

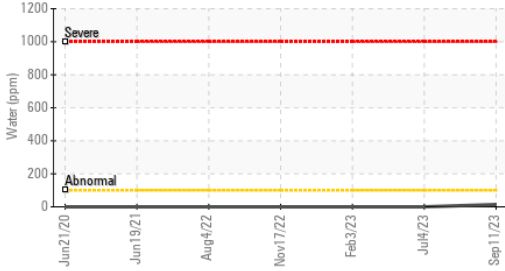
**Non-ferrous Metals**



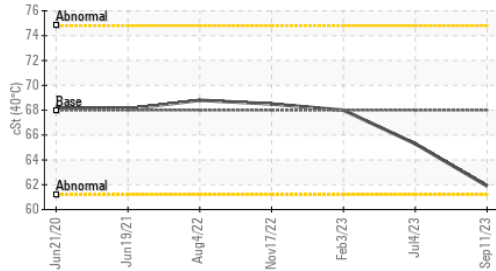
**Ferrous Alloys**



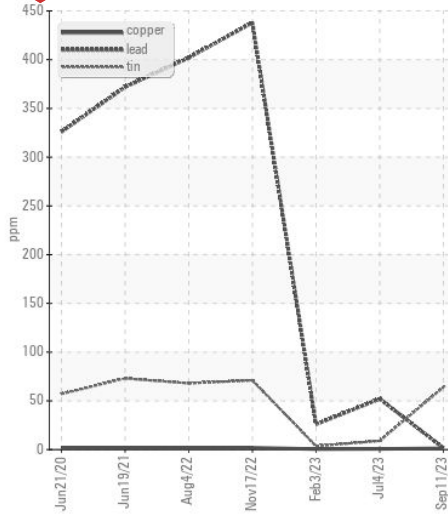
**Water (KF)**



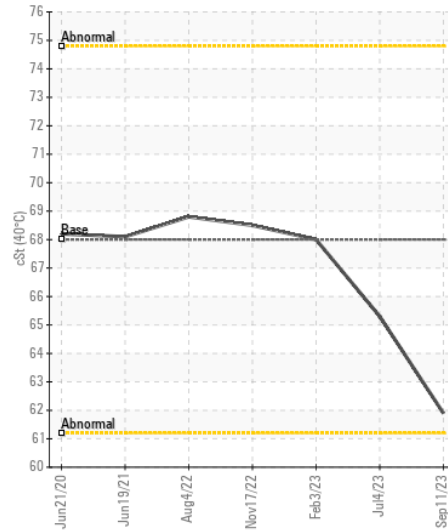
**Viscosity @ 40°C**



**Non-ferrous Metals**



**Viscosity @ 40°C**



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Wajax - Northpoint Technical Services  
**Sample No.** : WC0828558 **Received** : 13 Sep 2023 1108 WebbWood Drive.  
**Lab Number** : 02582151 **Diagnosed** : 14 Sep 2023 Sudbury, ON  
**Unique Number** : 5643216 **Diagnostician** : Kevin Marson CA P3C 3B7  
**Test Package** : IND 1 ( Additional Tests: KF ) Contact: Nick Walker  
 nwalker@northpoints.com

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.

T: (705)499-2387  
 F: (795)690-9010