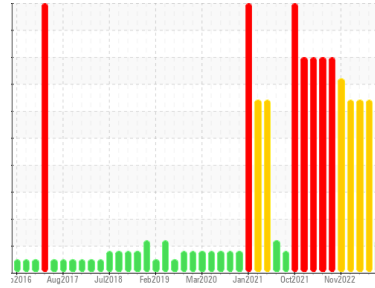


# PROBLEM SUMMARY

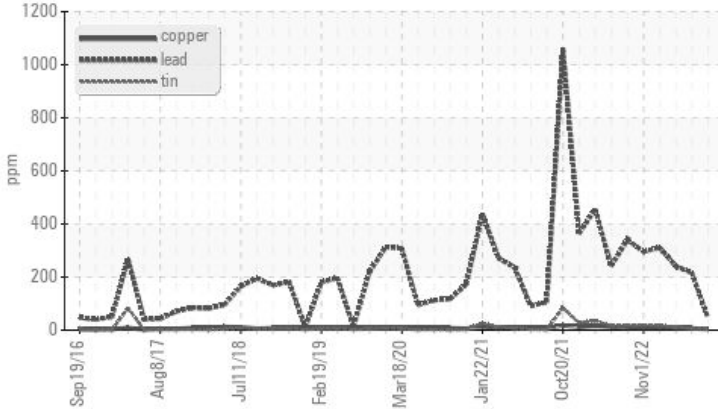
Area  
**TEAM 1**  
Machine Id  
**136120 ID Fan Inboard**  
Component  
**Bearing**  
Fluid  
**PETRO CANADA TURBOFLO R&O 100 (4 QTS)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	SEVERE	SEVERE
Lead	ppm	ASTM D5185(m)	>20	▲ 46	● 216	● 241
Antimony	ppm	ASTM D5185(m)		▲ 7	▲ 12	▲ 19

Customer Id: CANDRY  
Sample No.: PC0069911  
Lab Number: 02579368  
Test Package: IND 2



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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 12 Apr 2023 Diag: Kevin Marson

WEAR



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. Lead ppm levels are severe. Antimony ppm levels are marginal. Bearing wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



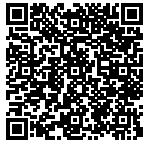
### 15 Feb 2023 Diag: Kevin Marson

WEAR



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. Lead ppm levels are severe. Antimony ppm levels are abnormal. Bearing wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



### 05 Jan 2023 Diag: Kevin Marson

WEAR

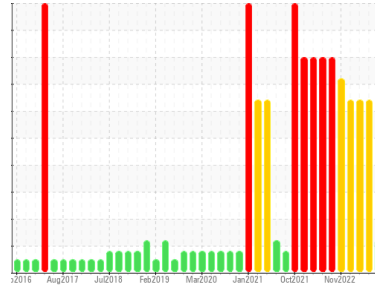


We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Lead ppm levels are severe. Antimony ppm levels are abnormal. Bearing wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



Area  
**TEAM 1**  
Machine Id  
**136120 ID Fan Inboard**  
Component  
**Bearing**  
Fluid  
**PETRO CANADA TURBOFLO R&O 100 (4 QTS)**



**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

Lead and antimony ppm levels are noted. All other component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0069911</b>	PC0070204	PC0069798
Sample Date	Client Info	<b>24 Aug 2023</b>	12 Apr 2023	15 Feb 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ATTENTION</b>	SEVERE	SEVERE

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	4
Iron	ppm ASTM D5185(m) >20	<b>6</b>	8	14
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	<1
Lead	ppm ASTM D5185(m) >20	<b>▲ 46</b>	● 216	● 241
Copper	ppm ASTM D5185(m) >20	<b>4</b>	7	9
Tin	ppm ASTM D5185(m) >20	<b>4</b>	6	10
Antimony	ppm ASTM D5185(m)	<b>▲ 7</b>	▲ 12	▲ 19
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>0</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>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Calcium	ppm ASTM D5185(m) 0	<b>1</b>	0	0
Phosphorus	ppm ASTM D5185(m) 4	<b>7</b>	11	11
Zinc	ppm ASTM D5185(m) 0	<b>5</b>	12	13
Sulfur	ppm ASTM D5185(m)	<b>141</b>	163	165
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

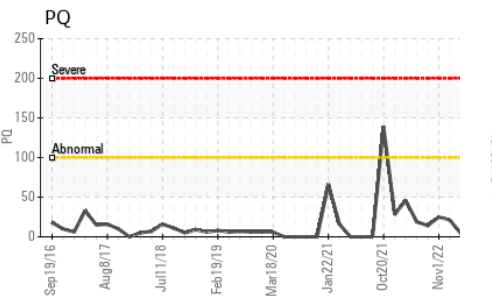
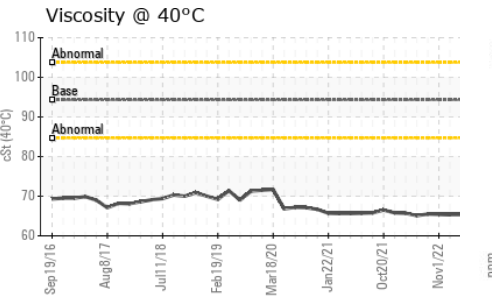
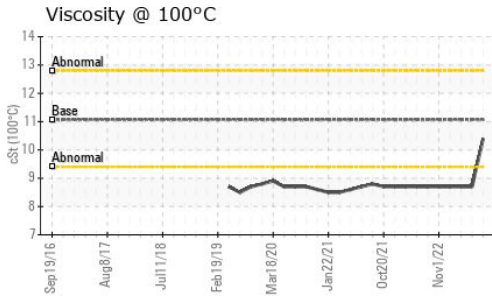
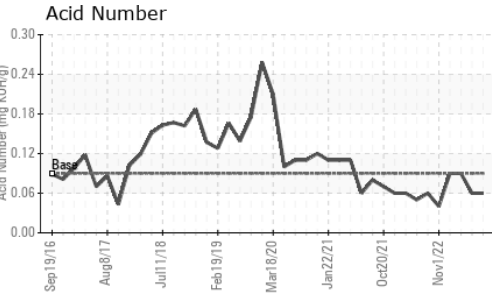
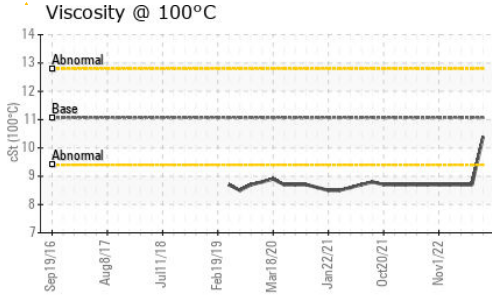
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>0</b>	<1	<1
Sodium	ppm ASTM D5185(m)	<b>2</b>	11	12
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	2	1

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.09	<b>0.06</b>	0.06	0.09

# OIL ANALYSIS REPORT

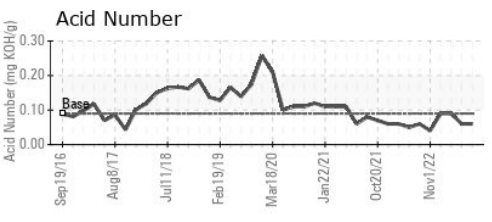
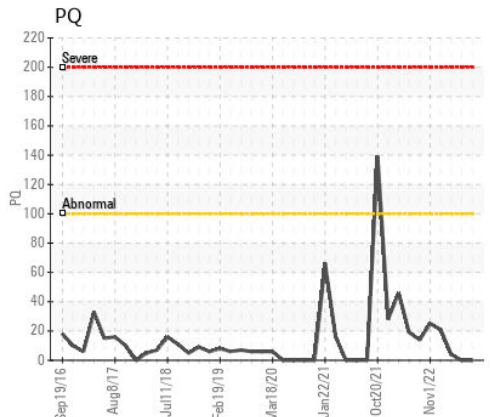
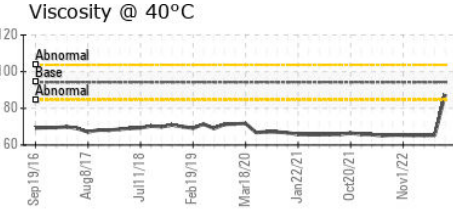
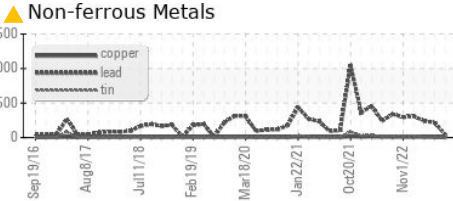
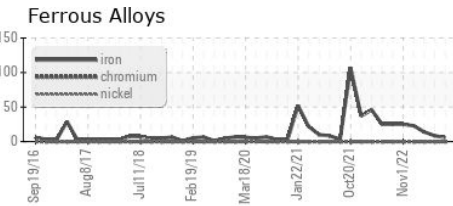


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	94.3	<b>87.5</b>	65.3	65.3
Visc @ 100°C	cSt	ASTM D7279(m)	11.07	<b>10.4</b>	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270*	103	<b>100</b>	105	105

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069911 **Received** : 30 Aug 2023  
**Lab Number** : 02579368 **Diagnosed** : 31 Aug 2023  
**Unique Number** : 5632428 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI )

**Dryden Fibre**  
 Box 3001, 1 Duke Street  
 Dryden, ON  
 CA P8N 2Z7  
 Contact: Yvon St. Laurent  
 yvon.stlaurent@domtar.com  
 T: (807)223-9838  
 F: (807)223-9176

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.