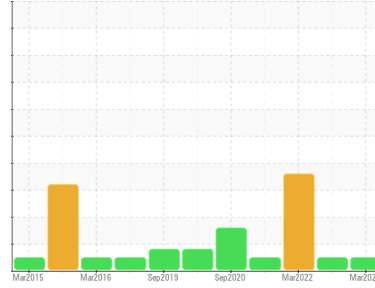


Machine Id  
**#6 CENTRIFUGE DEWATERING (S/N 260324)**  
Component  
**Centrifugal Compressor**  
Fluid  
**PETRO CANADA TURBOFLO R&O 46 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

The water content is negligible. 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>PC0058167</b>	PC0058434	PC0058377	
Sample Date	Client Info	<b>08 Mar 2023</b>	13 Sep 2022	07 Mar 2022	
Machine Age	hrs	Client Info	<b>75866</b>	73739	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed	
Sample Status		<b>NORMAL</b>	NORMAL	SEVERE	

**WEAR METALS**

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	<b>0</b>	0	0	
Iron	ppm	ASTM D5185(m) >50	<b>3</b>	4	4
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
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) >25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m) >50	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
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	<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>0</b>	0	<1
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	1	3
Phosphorus	ppm	ASTM D5185(m) 3	<b>9</b>	4	6
Zinc	ppm	ASTM D5185(m) 0	<b>7</b>	6	3
Sulfur	ppm	ASTM D5185(m)	<b>167</b>	149	156
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

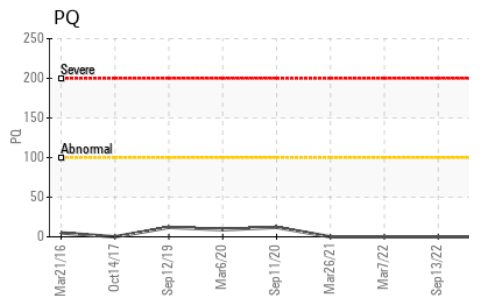
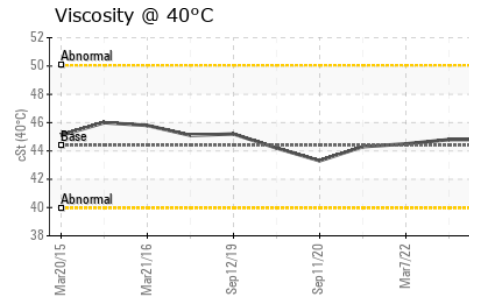
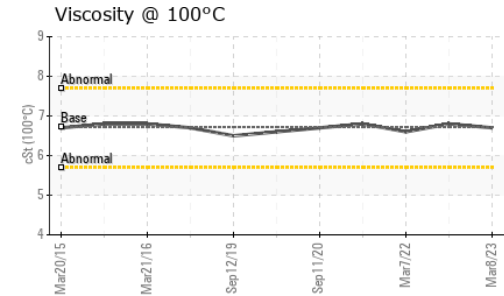
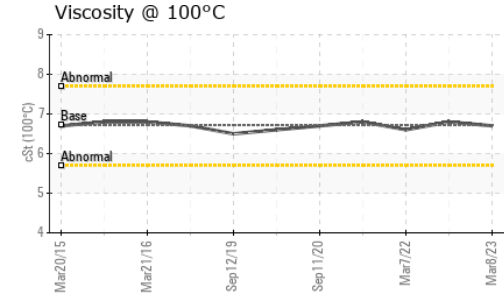
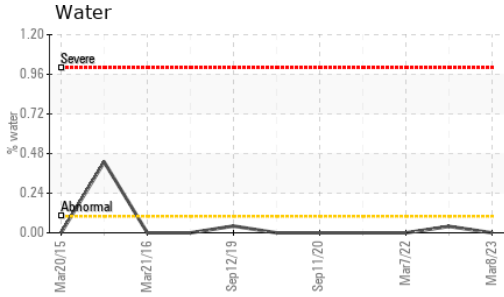
**CONTAMINANTS**

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	<b>0</b>	0	1
Sodium	ppm	ASTM D5185(m)	<b>1</b>	<1	2
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	1
Water	%	ASTM D6304* >0.1	<b>0.00</b>	0.039	---
ppm Water	ppm	ASTM D6304* >1000	<b>0.00</b>	397.5	---

**FLUID DEGRADATION**

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974* 0.12	<b>0.08</b>	0.07	0.04

# OIL ANALYSIS REPORT

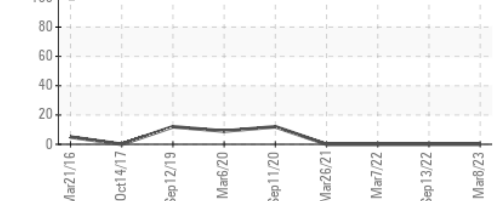
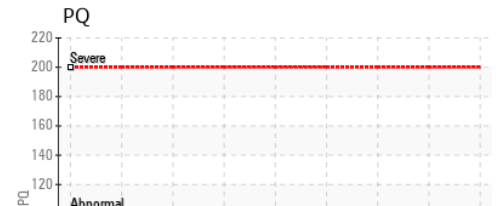
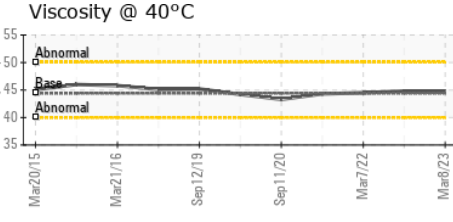
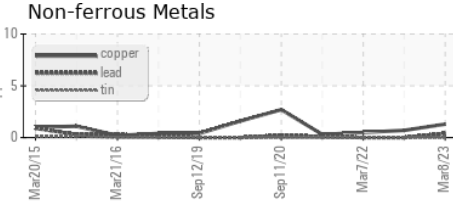
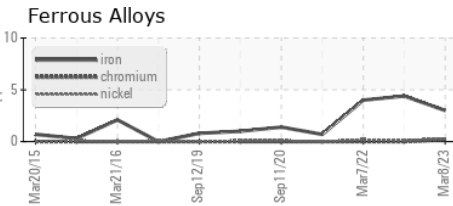


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	.2%	.5%
Free Water	scalar	Visual*		NEG	▲ 5%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	44.4	44.8	44.5
Visc @ 100°C	cSt	ASTM D7279(m)	6.72	6.8	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	104	106	99

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ONTARIO CLEAN WATER AGENCY- SOUTH PEEL FACILITIES  
**Sample No.** : PC0058167 **Received** : 17 Mar 2023 1300 LAKESHORE RD  
**Lab Number** : 02546049 **Diagnosed** : 21 Mar 2023 MISSISSAUGA, ON  
**Unique Number** : 5551059 **Diagnostician** : Wes Davis CA L5E 1E9  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, TAN Man, VI )  
 Contact: Angelo Magnifico  
 amagnifico@ocwa.com  
 T: (905)274-1223  
 F: (905)274-2076

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.