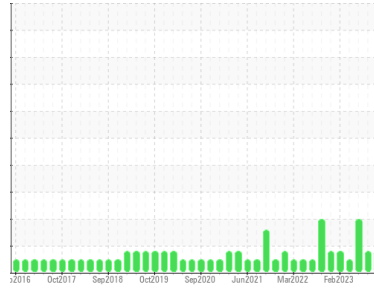


Area
TEAM 1
Machine Id
136110 Secondary Air FD Fan Outboard
Component
Bearing
Fluid
PETRO CANADA TURBOFLO R&O 68 (1 QTS)



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
Copper ppm levels are abnormal. Bearing wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0076934	PC0069868	PC0074848
Sample Date	Client Info	22 Jan 2024	06 Oct 2023	10 Aug 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	---
Iron	ppm ASTM D5185(m) >20	<1	<1	<1
Chromium	ppm ASTM D5185(m) >20	0	0	0
Nickel	ppm ASTM D5185(m) >20	<1	0	<1
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m)	0	<1	0
Aluminum	ppm ASTM D5185(m) >20	<1	0	0
Lead	ppm ASTM D5185(m) >20	8	5	4
Copper	ppm ASTM D5185(m) >20	▲ 58	▲ 49	▲ 32
Tin	ppm ASTM D5185(m) >20	<1	0	0
Antimony	ppm ASTM D5185(m)	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	0	<1	0
Barium	ppm ASTM D5185(m)	0	0	0
Molybdenum	ppm ASTM D5185(m)	0	0	0
Manganese	ppm ASTM D5185(m)	0	0	0
Magnesium	ppm ASTM D5185(m)	<1	0	<1
Calcium	ppm ASTM D5185(m) 0	2	1	1
Phosphorus	ppm ASTM D5185(m) 4	21	16	16
Zinc	ppm ASTM D5185(m) 0	41	31	24
Sulfur	ppm ASTM D5185(m)	172	115	127
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

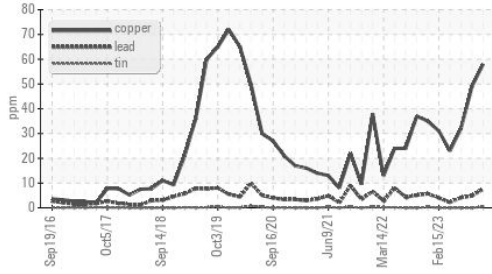
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	0	0	0
Sodium	ppm ASTM D5185(m)	<1	<1	<1
Potassium	ppm ASTM D5185(m) >20	<1	<1	0

FLUID DEGRADATION

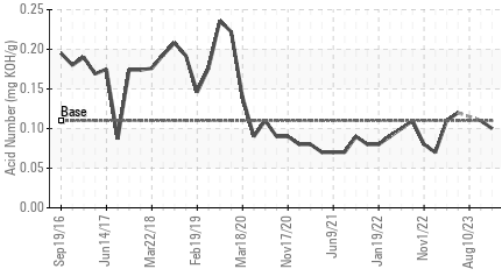
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.11	0.10	0.11	---

OIL ANALYSIS REPORT

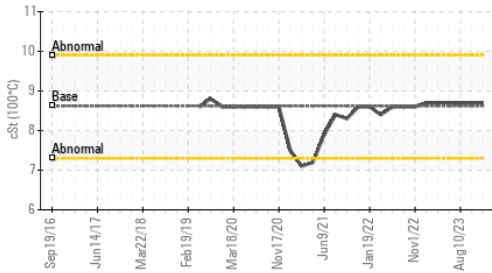
▲ Non-ferrous Metals



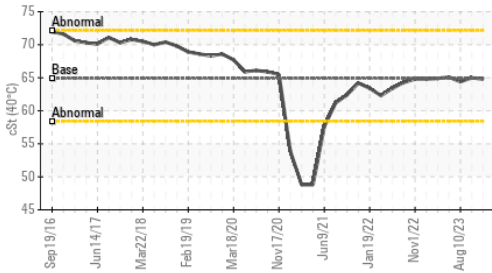
Acid Number



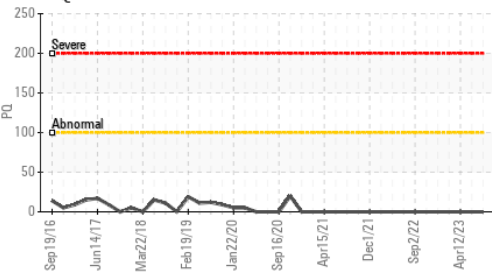
Viscosity @ 100°C



Viscosity @ 40°C



PQ



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	VLITE	▲ LIGHT
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	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*	>2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D2729(m)	64.9	64.8	65.0
Visc @ 100°C	cSt	ASTM D2729(m)	8.62	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270*	104	106	107

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				
PrtFilter		no image		



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076934 **Received** : 31 Jan 2024
Lab Number : 02612467 **Diagnosed** : 01 Feb 2024
Unique Number : 5721562 **Diagnostician** : Bill Quesnel
Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

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.

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