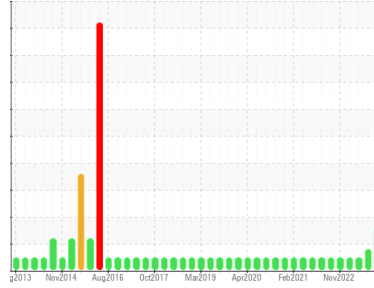


Area
TEAM 1
Machine Id
160130 Scrubber ID Fan Inboard Bearing
Component
Inboard Bearing
Fluid
PETRO CANADA TURBOFLO R&O 150 (1 GAL)



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**
Lead ppm levels are abnormal. Iron ppm levels are noted. Bearing wear is indicated. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0074772	PC0069722	PC0069691
Sample Date	Client Info			18 Jul 2023	04 Apr 2023	12 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL

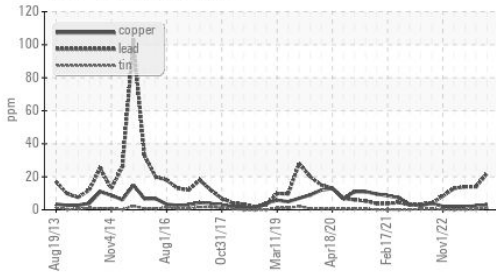
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	1
Iron	ppm	ASTM D5185(m)	>20	▲ 20	▲ 19	6
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
Lead	ppm	ASTM D5185(m)	>20	▲ 22	14	14
Copper	ppm	ASTM D5185(m)	>20	3	2	2
Tin	ppm	ASTM D5185(m)	>20	1	<1	<1
Antimony	ppm	ASTM D5185(m)		<1	<1	<1
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)		<1	0	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		<1	<1	0
Calcium	ppm	ASTM D5185(m)	0	6	6	3
Phosphorus	ppm	ASTM D5185(m)	4	6	2	9
Zinc	ppm	ASTM D5185(m)	0	6	3	3
Sulfur	ppm	ASTM D5185(m)		5051	8069	8769
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

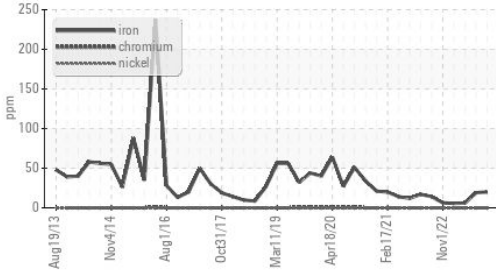
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	2	1	<1
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0

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

▲ Non-ferrous Metals



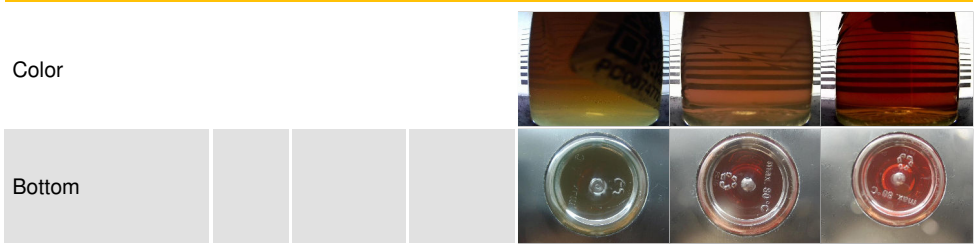
▲ Ferrous Alloys



FLUID PROPERTIES

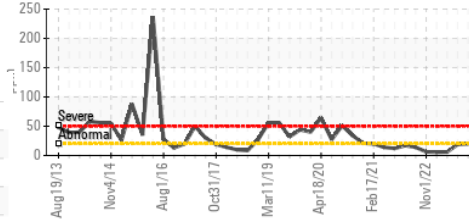
	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	137.1	150	154
Visc @ 100°C	cSt	ASTM D7279(m)	14.19	14.4	14.5
Viscosity Index (VI)	Scale	ASTM D2270*	101	91	91

SAMPLE IMAGES

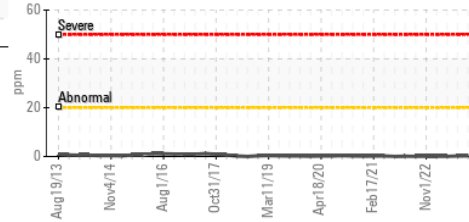


GRAPHS

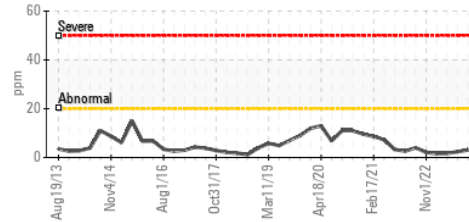
▲ Iron (ppm)



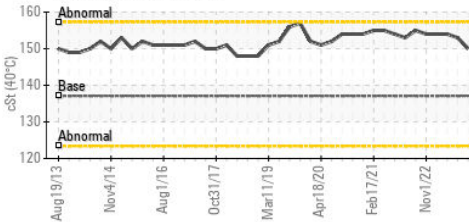
Aluminum (ppm)



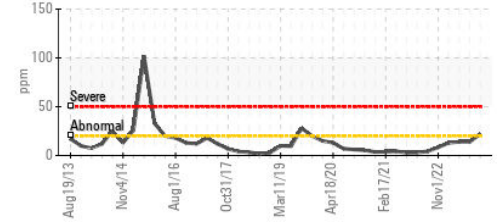
Copper (ppm)



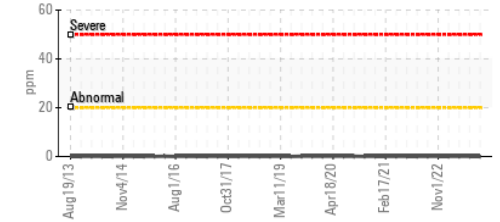
Viscosity @ 40°C



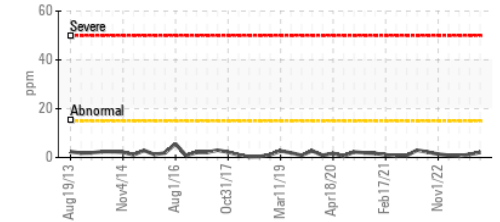
▲ Lead (ppm)



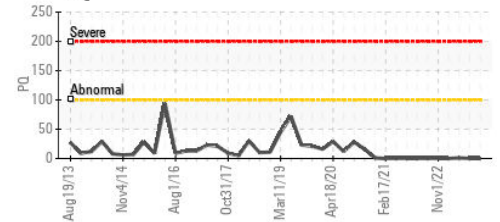
Chromium (ppm)



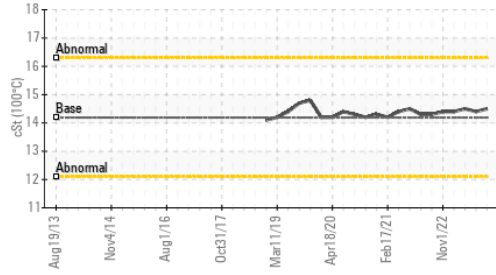
Silicon (ppm)



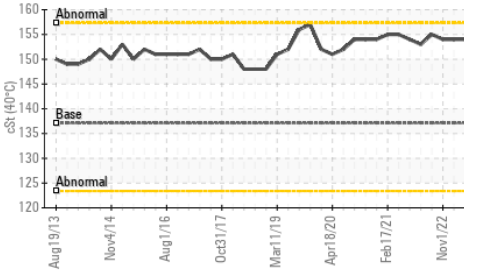
PQ



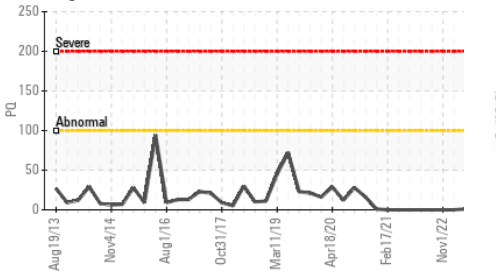
Viscosity @ 100°C



Viscosity @ 40°C



PQ



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0074772 **Received** : 03 Aug 2023
Lab Number : 02574093 **Diagnosed** : 03 Aug 2023
Unique Number : 5619144 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV100, PQ, 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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