

Area  
**TEAM 1**  
Machine Id  
**136120 ID Fan Inboard**  
Component  
**Bearing**  
Fluid  
**PETRO CANADA TURBOFLO R&O 68 (4 QTS)**

**DIAGNOSIS**

**Recommendation**  
We advise that you check all areas where dirt can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

**Wear**  
All component wear rates are normal.

**Contamination**  
There is a moderate concentration of dirt present in the oil.

**Fluid Condition**  
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0076930</b>	PC0069860	PC0069892
Sample Date	Client Info	<b>22 Jan 2024</b>	06 Oct 2023	27 Sep 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>ABNORMAL</b>	NORMAL	NORMAL

**CONTAMINATION**

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

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	0
Iron	ppm ASTM D5185(m) >20	<b>4</b>	<1	<1
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	0
Lead	ppm ASTM D5185(m) >20	<b>17</b>	4	9
Copper	ppm ASTM D5185(m) >20	<b>3</b>	<1	<1
Tin	ppm ASTM D5185(m) >20	<b>4</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>1</b>	0	0
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**

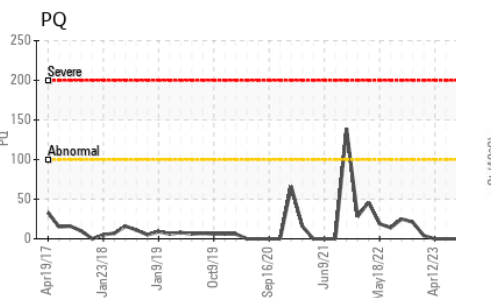
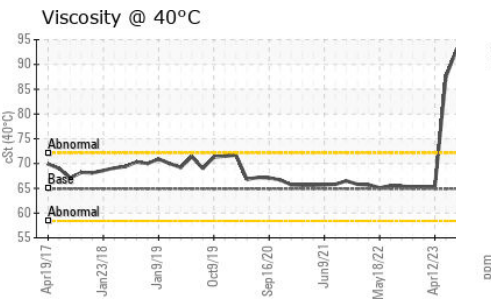
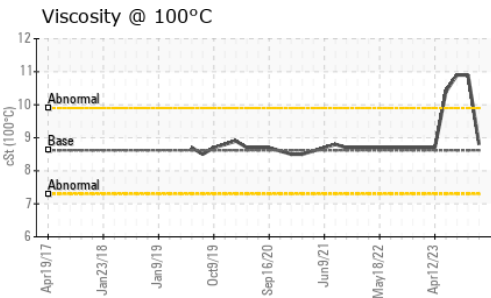
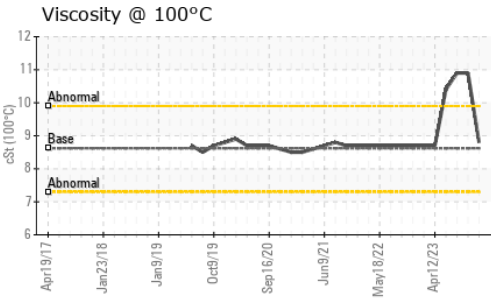
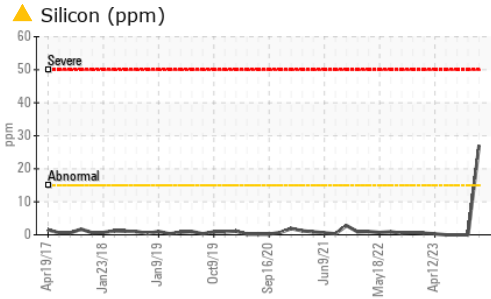
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Barium	ppm ASTM D5185(m)	<b>0</b>	<1	0
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Calcium	ppm ASTM D5185(m) 0	<b>1</b>	<1	<1
Phosphorus	ppm ASTM D5185(m) 4	<b>13</b>	5	6
Zinc	ppm ASTM D5185(m) 0	<b>8</b>	1	2
Sulfur	ppm ASTM D5185(m)	<b>151</b>	145	700
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>▲ 27</b>	0	0
Sodium	ppm ASTM D5185(m)	<b>8</b>	<1	<1
Potassium	ppm ASTM D5185(m) >20	<b>1</b>	0	0

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.11	<b>0.05</b>	0.10	0.07



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	NONE
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 D7279(m)	64.9	92.6	93.2
Visc @ 100°C	cSt	ASTM D7279(m)	8.62	10.9	10.9
Viscosity Index (VI)	Scale	ASTM D2270*	104	101	101

**SAMPLE IMAGES**

Color

Bottom

**GRAPHS**

Ferrous Alloys (ppm): iron, chromium, nickel

Non-ferrous Metals (ppm): copper, lead, tin

Viscosity @ 40°C (cSt (40°C))

PQ (ppm)

Acid Number (mg KOH/g)



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0076930 **Received** : 31 Jan 2024  
**Lab Number** : 02612466 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 5721561 **Diagnostician** : Bill Quesnel  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI )

**Dryden Fibre**  
 Box 3001, 1 Duke Street  
 Dryden, ON  
 CA P8N 2Z7  
 Contact: Adebukola Adekanye  
 aadekanye@drydenfibre.ca  
 T: (807)223-9950  
 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.