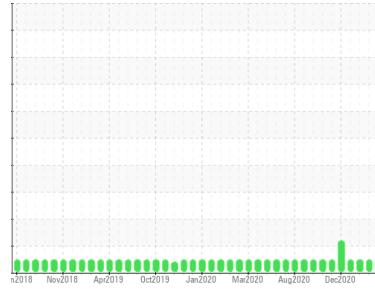


Area  
**Aft Machinery Space [450203972]**  
Machine Id  
**Compressor Service Air (A) - Crank Case (S/N Sample Tag KA-63201A-S1)**  
Component  
**Centrifugal Compressor**  
Fluid  
**PETRO CANADA TURBOFLO XL32 (189 LTR)**



**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

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

**Contamination**  
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

**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>PC0011824</b>	PC0061561	PC0052028
Sample Date	Client Info	<b>06 Sep 2023</b>	11 Aug 2023	17 May 2023
Machine Age	hrs	<b>0</b>	2100	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	0
Iron	ppm ASTM D5185(m) >50	<b>4</b>	4	6
Chromium	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m)	<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) >25	<b>0</b>	0	0
Lead	ppm ASTM D5185(m) >25	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >50	<b>&lt;1</b>	<1	0
Tin	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</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) 0	<b>&lt;1</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185(m) 0	<b>0</b>	0	<1
Calcium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Phosphorus	ppm ASTM D5185(m) 5	<b>17</b>	18	16
Zinc	ppm ASTM D5185(m) 0	<b>4</b>	4	3
Sulfur	ppm ASTM D5185(m) 750	<b>634</b>	667	646
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

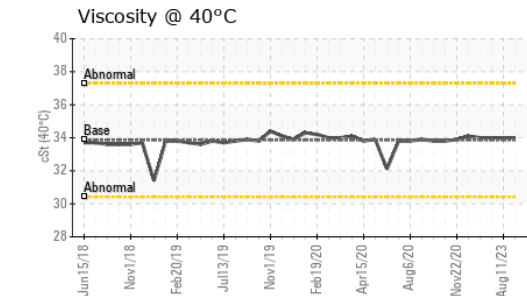
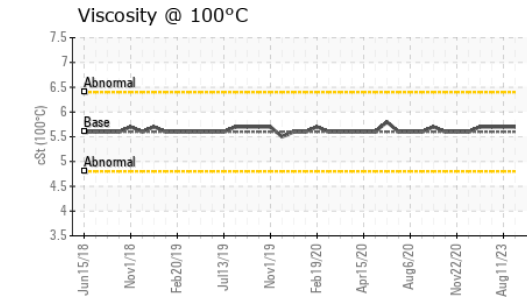
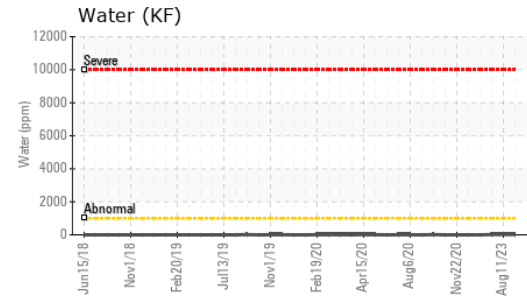
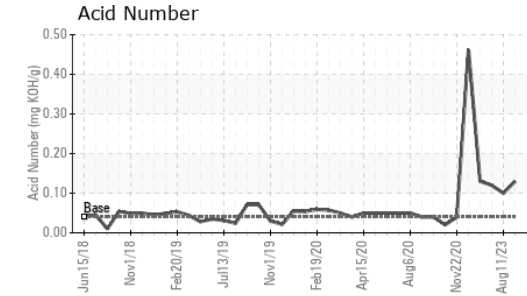
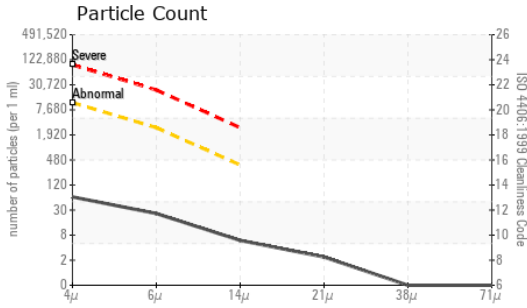
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>&lt;1</b>	<1	<1
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	1
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1
Water	% ASTM D6304* >0.1	<b>0.002</b>	0.002	0.002
ppm Water	ppm ASTM D6304* >1000	<b>19.9</b>	20.1	15.1

**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>55</b>	192	131
Particles >6µm	ASTM D7647 >2500	<b>22</b>	58	53
Particles >14µm	ASTM D7647 >320	<b>5</b>	5	9
Particles >21µm	ASTM D7647 >80	<b>2</b>	2	3
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	1
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>13/12/10</b>	15/13/10	14/13/10

# OIL ANALYSIS REPORT

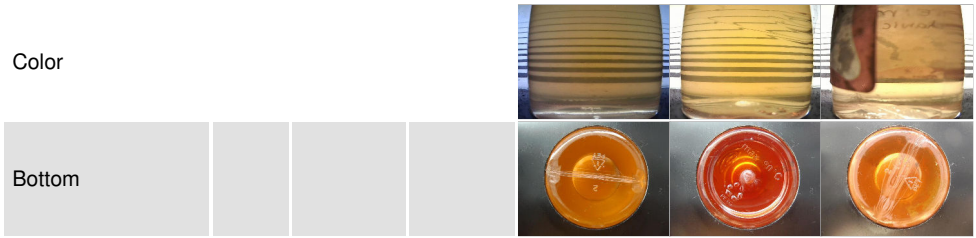


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	<b>0.13</b>	0.10	0.12

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	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>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</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*	>0.1	<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)	33.86	<b>34.0</b>	34.0	34.0
Visc @ 100°C	cSt	ASTM D7279(m)	5.60	<b>5.7</b>	5.7	5.7
Viscosity Index (VI)	Scale	ASTM D2270*	101	<b>107</b>	107	107

## SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0011824 **Received** : 22 Sep 2023  
**Lab Number** : **02584693** **Diagnosed** : 26 Sep 2023  
**Unique Number** : 5645758 **Diagnostician** : Bill Quesnel  
**Test Package** : MAR 2 ( Additional Tests: KF, KV100, PQ, PrtCount, 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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