



Area

**Aft Machinery Space [450303856]**

Machine Id

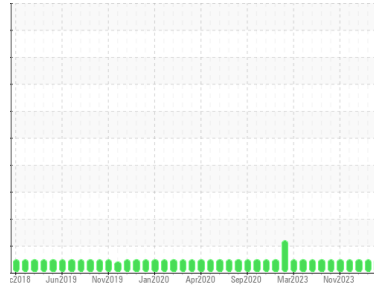
**Compressor Service Air (A) - Crank Case (S/N Sample Tag KA-63201A-S1)**

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 water content is negligible. The system and fluid cleanliness is acceptable. NOTE: An increase in the particle count is noted.

**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>PC0081226</b>	PC	PC0052499
Sample Date	Client Info	<b>16 May 2024</b>	14 Apr 2024	23 Feb 2024
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	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>2</b>	2
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)		<b>0</b>	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>0</b>	<1
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0
Copper	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	0	<b>0</b>	0
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1
Calcium	ppm	ASTM D5185(m)	0	<b>0</b>	0
Phosphorus	ppm	ASTM D5185(m)	5	<b>14</b>	15
Zinc	ppm	ASTM D5185(m)	0	<b>2</b>	2
Sulfur	ppm	ASTM D5185(m)	750	<b>593</b>	609
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

**CONTAMINANTS** method limit/base current history1 history2

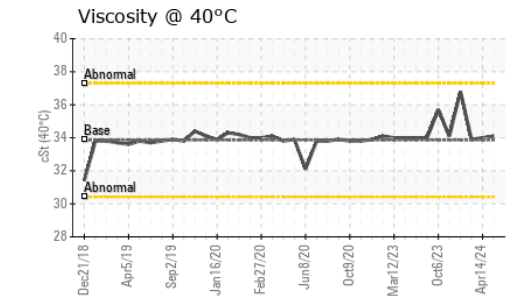
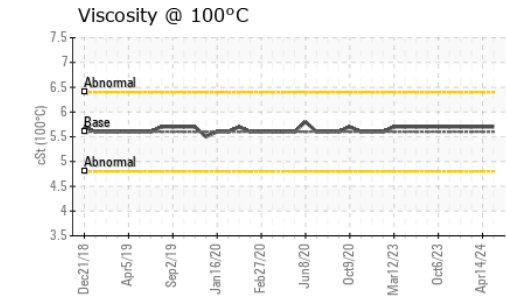
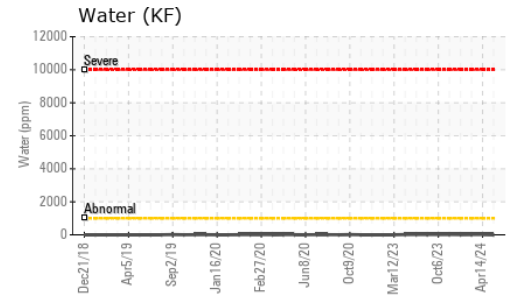
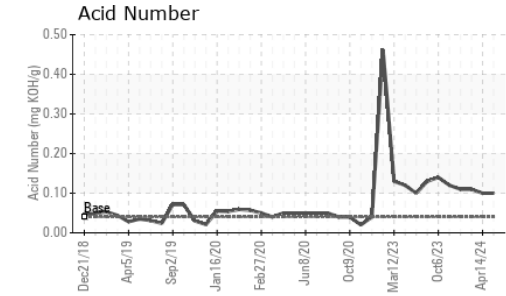
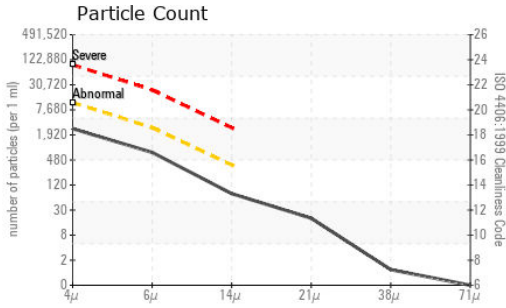
Silicon	ppm	ASTM D5185(m)	>25	<b>0</b>	0
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Water	%	ASTM D6304*	>0.1	<b>0.001</b>	0.002
ppm Water	ppm	ASTM D6304*	>1000	<b>4</b>	19

**FLUID CLEANLINESS** method limit/base current history1 history2

Particles >4µm	ASTM D7647	>10000	<b>2374</b>	137	1374
Particles >6µm	ASTM D7647	>2500	<b>640</b>	34	304
Particles >14µm	ASTM D7647	>320	<b>66</b>	4	21
Particles >21µm	ASTM D7647	>80	<b>17</b>	3	4
Particles >38µm	ASTM D7647	>20	<b>1</b>	1	1
Particles >71µm	ASTM D7647	>4	<b>0</b>	1	0

Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>18/16/13</b>	14/12/9	18/15/12
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# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081226  
**Lab Number** : 02639615  
**Unique Number** : 5788777  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, PrtCount, TAN Man, VI )

**Suncor - Terra Nova Projects**  
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 St. John's, NL  
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 joshynes@suncor.com  
 T: (709)778-3575  
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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.

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	<b>0.10</b>	0.10	0.11

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>34.1</b>	34.0	33.9
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>106</b>	107	107

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

