

Area

**Main Power Generation**

Machine Id

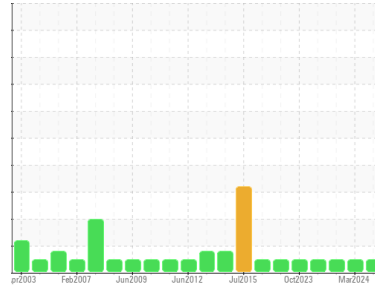
**Generator MPG #1 (Stbd) - Atomizing Air Comp Crank Case (S/N Sample Tag XX-80101-S3)**

Component

**Air Compressor**

Fluid

**PETRO CANADA ENDURATEX EP 220 (2 LTR)**



**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

The water content is negligible. There is no indication of any contamination in the oil.

**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>PC</b>	PC	PC0076416
Sample Date	Client Info	<b>08 Apr 2024</b>	04 Mar 2024	07 Feb 2024
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<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>	3	3
Chromium	ppm ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m)	>4	<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)	>10	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185(m)	>20	<b>0</b>	0	0
Copper	ppm ASTM D5185(m)	>40	<b>2</b>	1	1
Tin	ppm ASTM D5185(m)	>5	<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)	60	<b>58</b>	59	57
Barium	ppm ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Manganese	ppm ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Calcium	ppm ASTM D5185(m)	0	<b>2</b>	2	2
Phosphorus	ppm ASTM D5185(m)	270	<b>293</b>	294	299
Zinc	ppm ASTM D5185(m)	0	<b>3</b>	3	2
Sulfur	ppm ASTM D5185(m)	11200	<b>5343</b>	5448	5734
Lithium	ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1

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

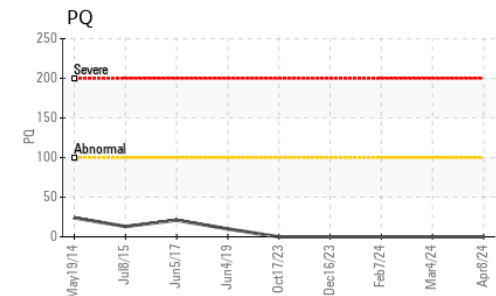
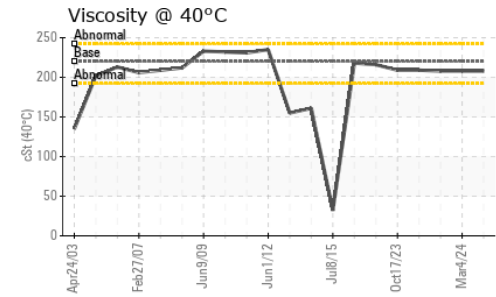
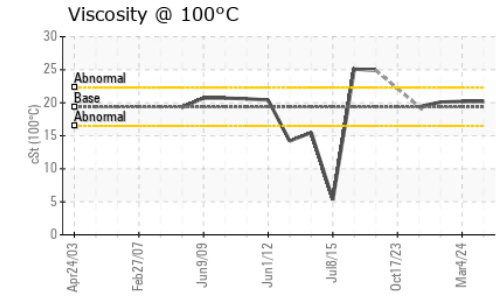
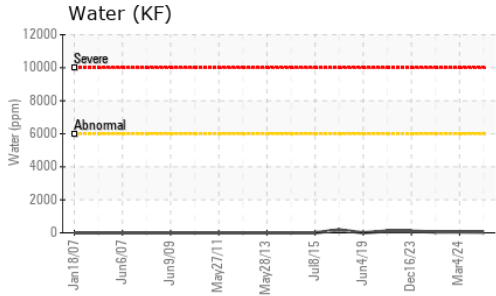
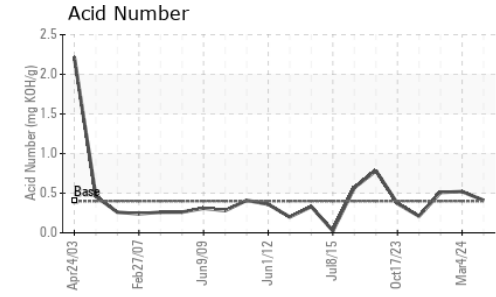
Silicon	ppm ASTM D5185(m)	>25	<b>3</b>	3	4
Sodium	ppm ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water	% ASTM D6304*	>0.6	<b>0.004</b>	0.005	0.005
ppm Water	ppm ASTM D6304*	>6000	<b>40</b>	55	52

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

Particles >4µm	ASTM D7647	>10000	<b>237712</b>	221468	160158
Particles >6µm	ASTM D7647	>2500	<b>75373</b>	63795	52429
Particles >14µm	ASTM D7647	>320	<b>1882</b>	1309	1082
Particles >21µm	ASTM D7647	>80	<b>260</b>	147	144
Particles >38µm	ASTM D7647	>20	<b>13</b>	4	7
Particles >71µm	ASTM D7647	>4	<b>2</b>	0	1

Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>25/23/18</b>	25/23/18	25/23/17
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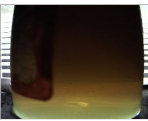
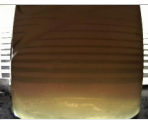



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	<b>0.41</b>	0.52	0.51

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
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>	VLITE	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*	>0.6	<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)	220	<b>208</b>	208	208
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	<b>20.2</b>	20.2	20.1
Viscosity Index (VI)	Scale	ASTM D2270*	99	<b>112</b>	112	111

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : 02631668  
**Unique Number** : 5772821  
**Test Package** : MAR 2 ( Additional Tests: KF, KV100, PQ, PrtCount, VI )  
**Received** : 26 Apr 2024  
**Tested** : 29 Apr 2024  
**Diagnosed** : 29 Apr 2024 - Kevin Marson

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Street  
 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshynes@suncor.com  
 T: (709)778-3575  
 F: (709)724-2835

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.