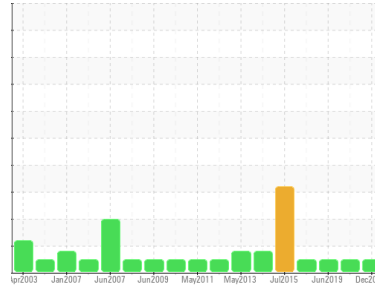


Area  
**Main Power Generation [450240123]**  
Machine Id  
**Generator MPG #1 (Stbd) - Atomizing Air Comp Crank Case (S/N Sample Tag XX-80101-S3)**  
Component  
**Air Compressor**  
Fluid  
**PETRO CANADA ENDURATEX EP 220 (2 LTR)**



**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>	PP	PC
Sample Date	Client Info	<b>16 Dec 2023</b>	17 Oct 2023	04 Jun 2019
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	10
Iron	ppm ASTM D5185(m)	>50	<b>2</b>	3	5
Chromium	ppm ASTM D5185(m)	>4	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m)	>4	<b>0</b>	<1	0
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)	>10	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185(m)	>20	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m)	>40	<b>1</b>	2	2
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>60</b>	65	6
Barium	ppm ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm ASTM D5185(m)	0	<b>&lt;1</b>	<1	1
Manganese	ppm ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185(m)	0	<b>&lt;1</b>	<1	2
Calcium	ppm ASTM D5185(m)	0	<b>2</b>	2	3
Phosphorus	ppm ASTM D5185(m)	270	<b>274</b>	266	395
Zinc	ppm ASTM D5185(m)	0	<b>2</b>	3	6
Sulfur	ppm ASTM D5185(m)	11200	<b>5829</b>	5433	5159
Lithium	ppm ASTM D5185(m)		<b>&lt;1</b>	<1	0

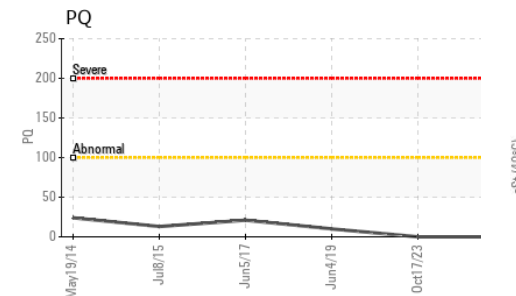
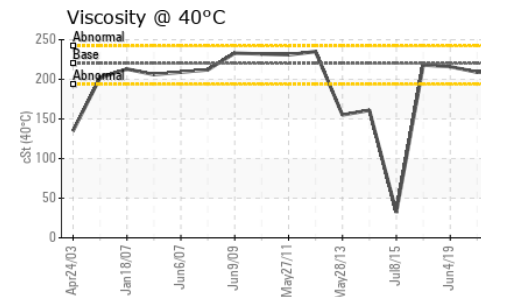
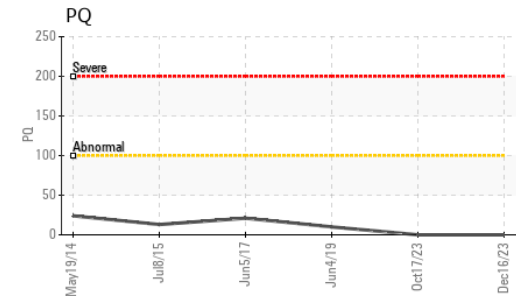
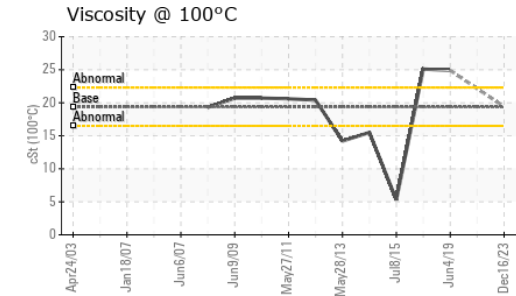
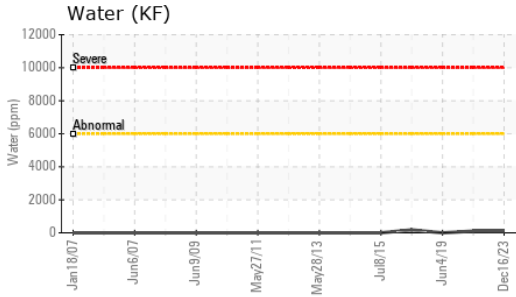
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm ASTM D5185(m)	>25	<b>5</b>	4	2
Sodium	ppm ASTM D5185(m)		<b>0</b>	0	<1
Potassium	ppm ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water	% ASTM D6304*	>0.6	<b>0.009</b>	0.010	---
ppm Water	ppm ASTM D6304*	>6000	<b>96</b>	104.0	---

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

Particles >4µm	ASTM D7647	>10000	<b>129776</b>	148364	182058
Particles >6µm	ASTM D7647	>2500	<b>45165</b>	68076	38091
Particles >14µm	ASTM D7647	>320	<b>762</b>	2484	831
Particles >21µm	ASTM D7647	>80	<b>80</b>	290	167
Particles >38µm	ASTM D7647	>20	<b>10</b>	14	3
Particles >71µm	ASTM D7647	>4	<b>7</b>	3	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>24/23/17</b>	24/23/18	25/22/17

# OIL ANALYSIS REPORT

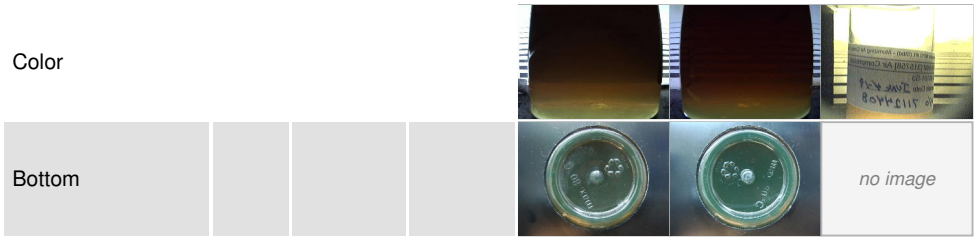


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	<b>0.21</b>	0.37	0.783

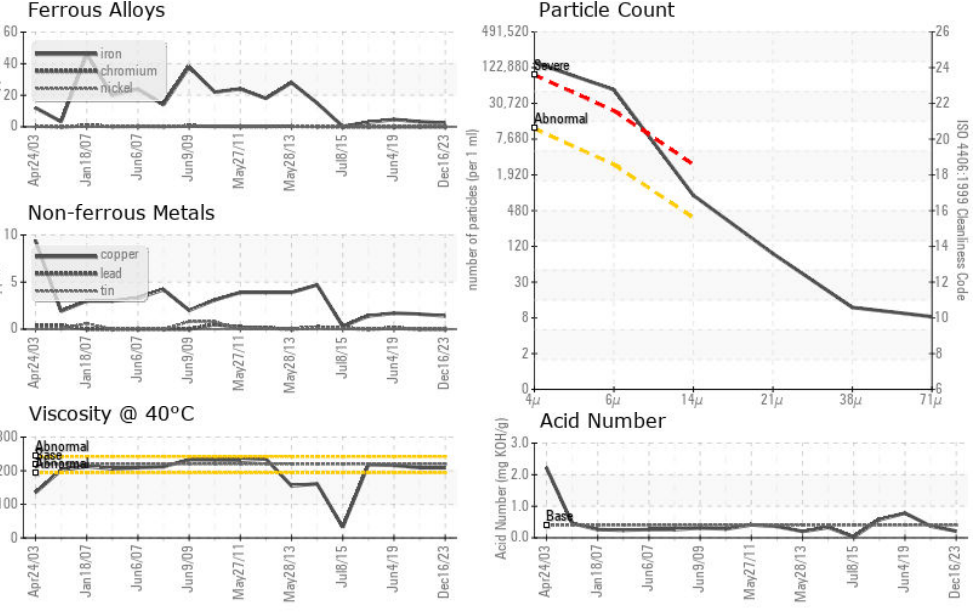
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
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>209</b>	209	216
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	<b>19.4</b>	---	24.9
Viscosity Index (VI)	Scale	ASTM D2270*	99	<b>105</b>	---	145

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : **02609538**  
**Unique Number** : 5710624  
**Test Package** : MAR 2 ( Additional Tests: KF, KV100, PQ, PrtCount, TAN Man, VI )  
**Received** : 17 Jan 2024  
**Diagnosed** : 19 Jan 2024  
**Diagnostician** : Kevin Marson

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Street  
 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshhynes@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.