

Area

**Gas Compression**

Machine Id

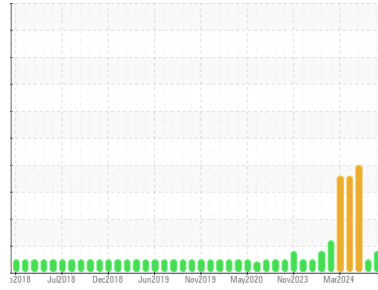
**Compressor (MP)- Lubrication System (S/N Sample Tag XX-23002-S1)**

Component

**Lube System**

Fluid

**PETRO CANADA TURBOFLO XL32 (10350 LTR)**



**DIAGNOSIS**

**Recommendation**

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MAR 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

**Wear**

Component wear rates appear to be normal (unconfirmed).

**Contamination**

There is a light amount of silt (particulates < 14 microns in size) present 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	PC
Sample Date	Client Info	<b>20 May 2024</b>	28 Apr 2024	19 Apr 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ATTENTION</b>	NORMAL	SEVERE

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

Water	WC Method	>0.05	<b>NEG</b>	NEG	NEG
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**WEAR METALS** method limit/base current history1 history2

PQ	ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m)	>20	<b>1</b>	<1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)	>10	<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)	>10	<b>0</b>	0
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Tin	ppm	ASTM D5185(m)	>10	<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

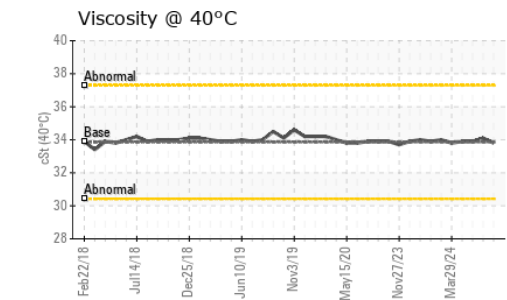
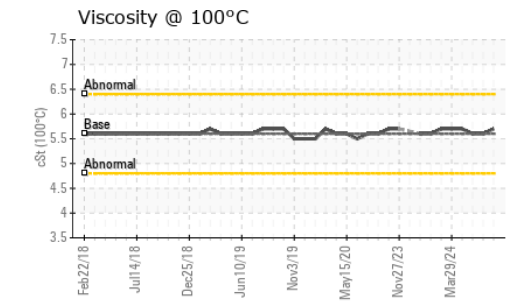
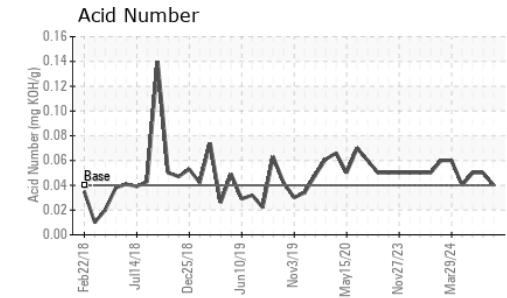
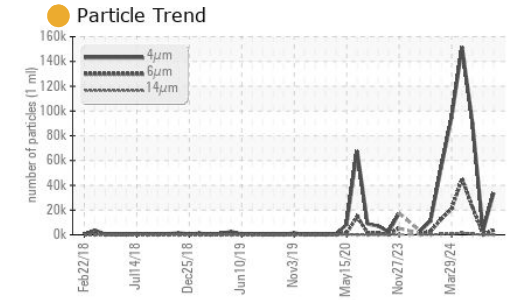
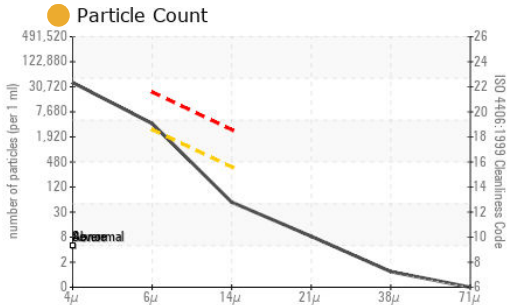
**ADDITIVES** method limit/base current history1 history2

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>&lt;1</b>	<1
Phosphorus	ppm	ASTM D5185(m)	5	<b>62</b>	65
Zinc	ppm	ASTM D5185(m)	0	<b>1</b>	2
Sulfur	ppm	ASTM D5185(m)	750	<b>479</b>	540
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

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

Silicon	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1
Sodium	ppm	ASTM D5185(m)		<b>1</b>	0
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : 02640253  
**Unique Number** : 5789415  
**Test Package** : MAR 2 ( Additional Tests: KV100, PQ, TAN Man, VI )

**Received** : 06 Jun 2024  
**Tested** : 07 Jun 2024  
**Diagnosed** : 07 Jun 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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>33678</b>	3243	89971
Particles >6µm	ASTM D7647	>2500	<b>3510</b>	550	▲ 22034
Particles >14µm	ASTM D7647	>320	<b>46</b>	24	▲ 708
Particles >21µm	ASTM D7647	>80	<b>7</b>	6	● 138
Particles >38µm	ASTM D7647	>20	<b>1</b>	1	8
Particles >71µm	ASTM D7647	>4	<b>0</b>	1	1
Oil Cleanliness	ISO 4406 (c)	>--/18/15	<b>22/19/13</b>	19/16/12	▲ 24/22/17

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.04	<b>0.04</b>	0.05	0.05

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>	VLITE	NONE
Sand/Dirt	scalar Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar Visual*	NORML	<b>NORML</b>	WGOIL	NORML
Odor	scalar Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar Visual*	>0.05	<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>33.8</b>	34.1	33.9
Visc @ 100°C	cSt ASTM D7279(m)	5.60	<b>5.7</b>	5.6	5.6
Viscosity Index (VI)	Scale ASTM D2270*	101	<b>108</b>	101	102

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
MPC				no image	no image