

Area

Gas Compression [450312985]

Machine Id

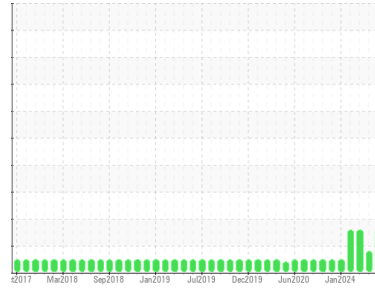
Compressor (LP) - Lubrication System (S/N Sample Tag XX-23001-S1)

Component

Lube System

Fluid

PETRO CANADA TURBOFLO XL32 (7600 LTR)



DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC	PC0078290	PC0081647
Sample Date	Client Info	19 Apr 2024	02 Apr 2024	28 Mar 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	0	0	0	
Iron	ppm	ASTM D5185(m)	>20	<1	0
Chromium	ppm	ASTM D5185(m)	>10	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0
Titanium	ppm	ASTM D5185(m)		0	0
Silver	ppm	ASTM D5185(m)		0	0
Aluminum	ppm	ASTM D5185(m)	>10	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0
Antimony	ppm	ASTM D5185(m)		0	0
Vanadium	ppm	ASTM D5185(m)		0	0
Beryllium	ppm	ASTM D5185(m)		0	0
Cadmium	ppm	ASTM D5185(m)		0	0

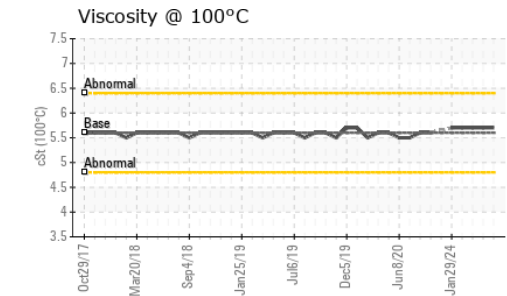
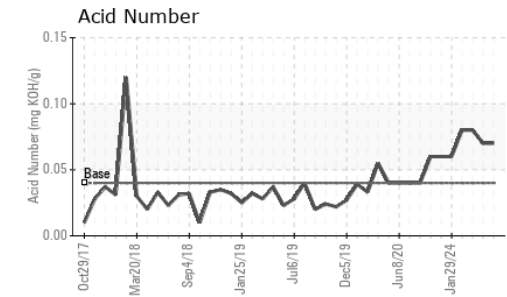
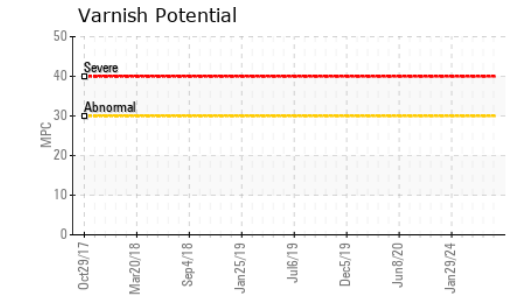
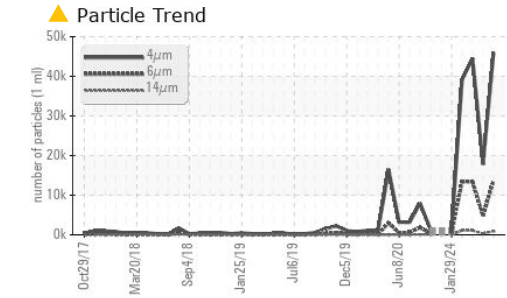
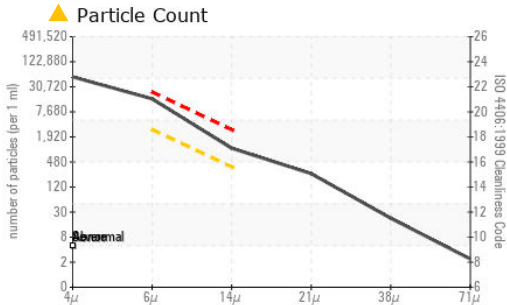
ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	0	0
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	<1
Calcium	ppm	ASTM D5185(m)	0	0	0
Phosphorus	ppm	ASTM D5185(m)	5	4	3
Zinc	ppm	ASTM D5185(m)	0	2	1
Sulfur	ppm	ASTM D5185(m)	750	608	635
Lithium	ppm	ASTM D5185(m)		<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	4	0
Sodium	ppm	ASTM D5185(m)		<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	0

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02634590
Unique Number : 5775743
Test Package : MAR 2 (Additional Tests: KV100, MPC, PQ, TAN Man, VI)
Received : 10 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Kevin Marson

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

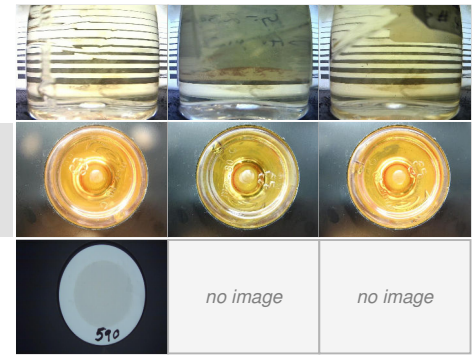
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		45923	17831	44515
Particles >6µm	ASTM D7647	>2500	▲ 13747	● 4805	▲ 13329
Particles >14µm	ASTM D7647	>320	▲ 901	319	▲ 1038
Particles >21µm	ASTM D7647	>80	▲ 222	84	▲ 275
Particles >38µm	ASTM D7647	>20	19	7	21
Particles >71µm	ASTM D7647	>4	2	1	3
Oil Cleanliness	ISO 4406 (c)	>--/18/15	▲ 23/21/17	● 21/19/15	▲ 23/21/17

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.07	0.07	0.08
MPC Varnish Potential	Scale	ASTM D7843(m)*	>15	7	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	33.86	33.9	33.8	33.8
Visc @ 100°C	cSt	ASTM D7279(m)	5.60	5.7	5.7	5.7
Viscosity Index (VI)	Scale	ASTM D2270*	101	107	108	108

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



MPC (Varnish Test)



Sample Color & Clarity



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