

# **OIL ANALYSIS REPORT**

### **Gas** Compression

Compressor (HP1) - Lubrication System (S/N Sample Tag XX-23003-S1)

Lube System

Area

Fluid PETRO CANADA TURBOFLO XL32 (10350 LTR)

### DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA TURBOFLO XL32, however, a fluid match indicates that this fluid is ISO 32 R&O Hydraulic Oil. Please confirm the oil type and grade on your next sample.

#### Wear

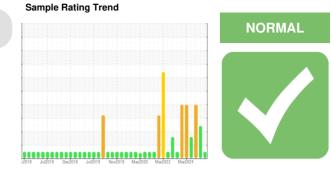
All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

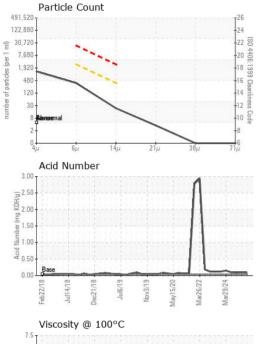
Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

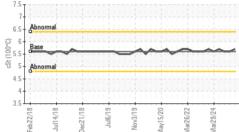


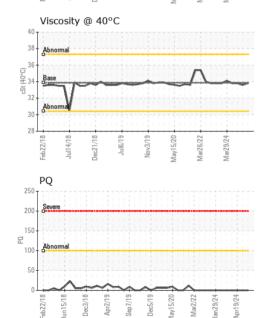
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC	PC	PC
Sample Date		Client Info		20 May 2024	28 Apr 2024	19 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>20	0	0	1
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	0	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	<1	0
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	0	<1
Calcium	ppm	ASTM D5185(m)	0	0	<1	<1
Phosphorus	ppm	ASTM D5185(m)	5	82	81	80
Zinc	ppm	ASTM D5185(m)	0	1	1	2
Sulfur	ppm	ASTM D5185(m)	750	253	339	261
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	<1
Sodium	ppm	ASTM D5185(m)		0	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0



## **OIL ANALYSIS REPORT**







FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1151	1646	81057
Particles >6µm		ASTM D7647	>2500	319	459	▲ 20402
Particles >14µm		ASTM D7647	>320	20	39	🔺 1005
Particles >21µm		ASTM D7647	>80	3	9	<u> </u>
Particles >38µm		ASTM D7647	>20	0	1	16
Particles >71µm		ASTM D7647	>4	0	0	1
Oil Cleanliness		ISO 4406 (c)	>/18/15	17/15/11	18/16/12	▲ 24/22/17
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.09	0.10	0.09
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	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	🔺 WGOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	.5%	NEG
Free Water	scalar	Visual*		NEG	▲ 1%	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	33.86	33.8	33.6	33.8
Visc @ 100°C	cSt	ASTM D7279(m)	5.60	5.7	5.6	5.6
Viscosity Index (VI)	Scale	ASTM D2270*	101	108	103	102
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
					A ALC AND DESCRIPTION	
Color						
				0		
					10:5 1	102

no image

Bottom

MPC



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Received : 06 Jun 2024 Sample No. : PC Lab Number : 02640279 Tested : 07 Jun 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5789441 Diagnosed : 07 Jun 2024 - Kevin Marson Test Package : MAR 2 (Additional Tests: KV100, PQ, TAN Man, VI) 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.

Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret St. John`s, NL CA A1C 1B6 Contact: Josh Hynes joshynes@suncor.com T: (709)778-3575 F: (709)724-2835

Report Id: TERHAM [WCAMIS] 02640279 (Generated: 06/07/2024 15:36:31) Rev: 1

Contact/Location: Josh Hynes - TERHAM Page 2 of 2

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