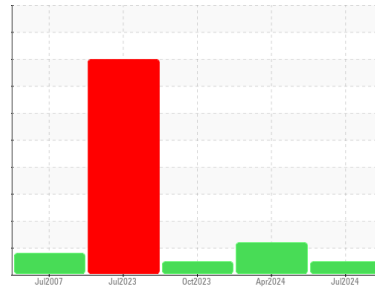




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**2 Phoenix/003 Flare Gas/C Compressor/102 Flare Gas**  
 Machine Id  
**AERZEN 03C102 - FLARE GAS COMPRESSOR**  
 Component  
**Compressor**  
 Fluid  
**PETRO CANADA TURBOFLO 46 (1400 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### 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>WC0957450</b>	WC0925269	WC0861502
Sample Date	Client Info		<b>02 Jul 2024</b>	01 Apr 2024	12 Oct 2023
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>	ATTENTION	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m) >25	<b>0</b>	0	8
Copper	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >15	<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) 0	<b>&lt;1</b>	0	<1
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	12
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	13
Phosphorus	ppm	ASTM D5185(m) 110	<b>8</b>	8	19
Zinc	ppm	ASTM D5185(m) 0.0	<b>6</b>	8	11
Sulfur	ppm	ASTM D5185(m)	<b>579</b>	571	694
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>0</b>	0	3
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1
Water	%	ASTM D6304* >0.1	<b>0.002</b>	0.003	0.001
ppm Water	ppm	ASTM D6304* >1000	<b>16</b>	28	10.7

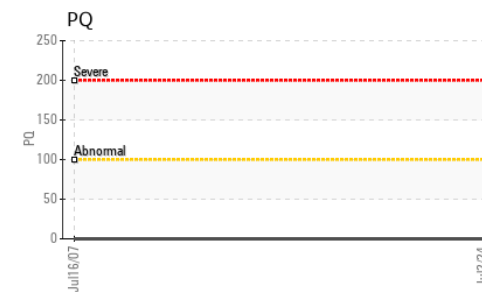
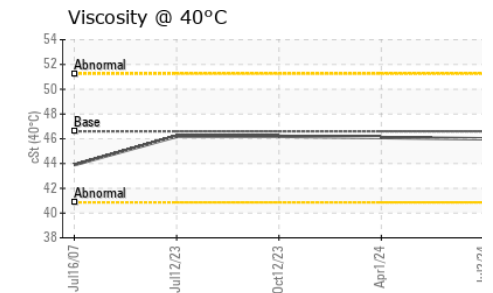
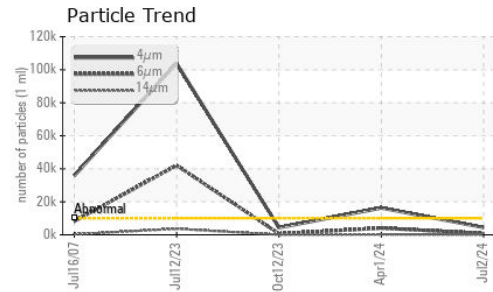
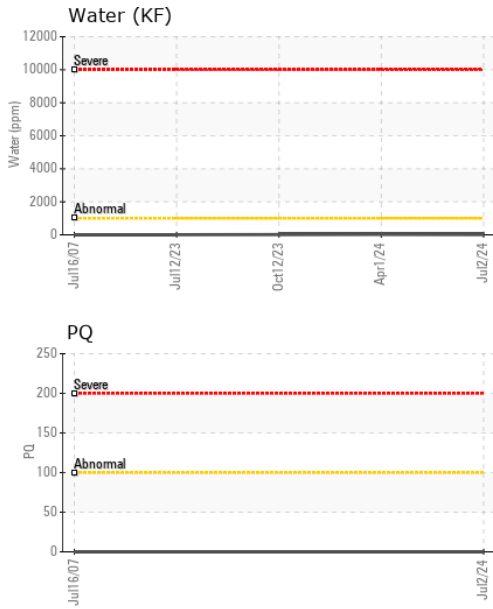
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>4403</b>	16261	4300
Particles >6µm	ASTM D7647	>2500	<b>839</b>	4080	652
Particles >14µm	ASTM D7647	>320	<b>66</b>	201	36
Particles >21µm	ASTM D7647	>80	<b>30</b>	63	14
Particles >38µm	ASTM D7647	>20	<b>5</b>	11	4
Particles >71µm	ASTM D7647	>4	<b>1</b>	2	1

Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>19/17/13</b>	21/19/15	19/17/12
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# OIL ANALYSIS REPORT

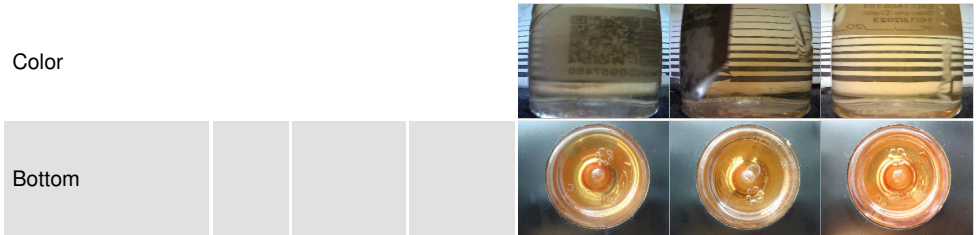


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	<b>0.03</b>	0.04	0.05

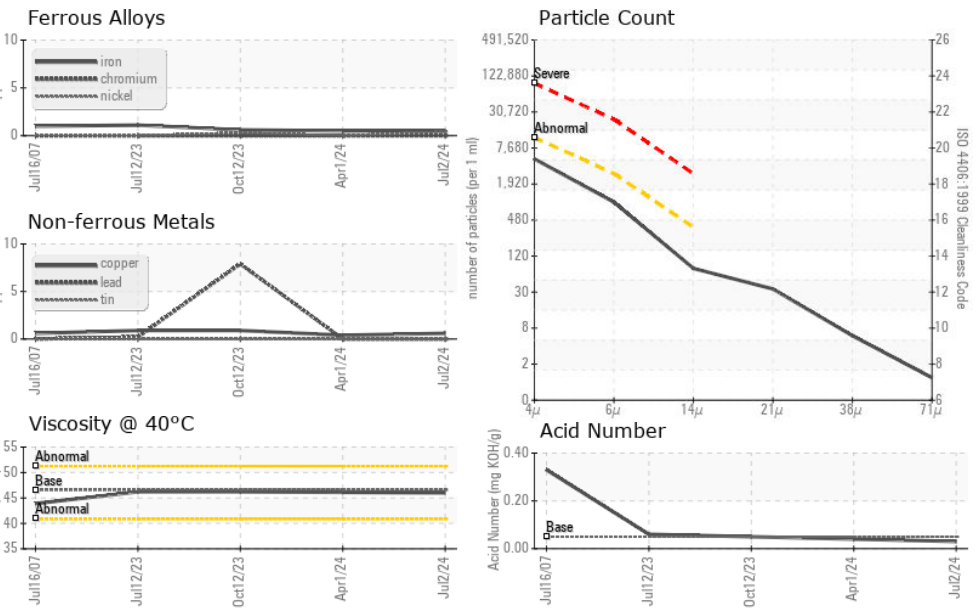
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<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)	46.6	<b>46.0</b>	46.1	46.2

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0957450 **Received** : 09 Jul 2024  
**Lab Number** : **02646726** **Tested** : 15 Jul 2024  
**Unique Number** : 5812278 **Diagnosed** : 15 Jul 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, PQ, TAN Man )

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.

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