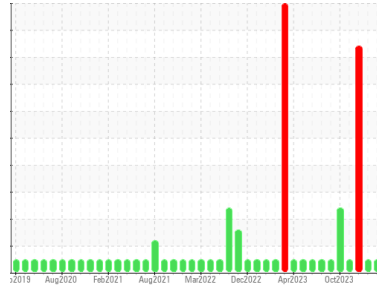


Area  
**TEAM 1**  
Machine Id  
**122553 Turbo Generator**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA TURBOFLO R&O 32 (1250 GAL)**



**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 system and fluid cleanliness is acceptable.

**Fluid Condition**  
The condition of the oil is acceptable for the time in service.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>PC0078800</b>	PC0077054	PC0077049
Sample Date	Client Info	<b>22 Jan 2024</b>	12 Dec 2023	11 Dec 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</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

Iron	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>20	<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)		<b>0</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	3
Phosphorus	ppm	ASTM D5185(m)	4	<b>12</b>	13	14
Zinc	ppm	ASTM D5185(m)	0	<b>3</b>	3	5
Sulfur	ppm	ASTM D5185(m)		<b>1161</b>	1088	1099
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

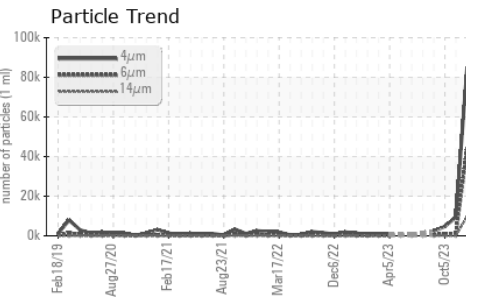
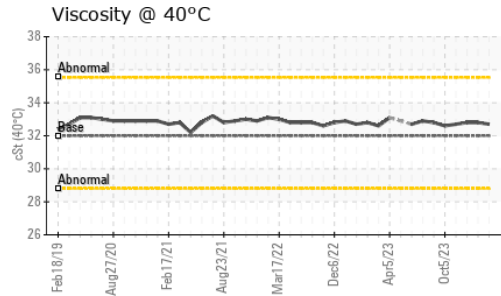
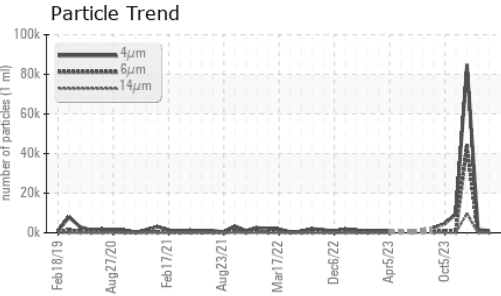
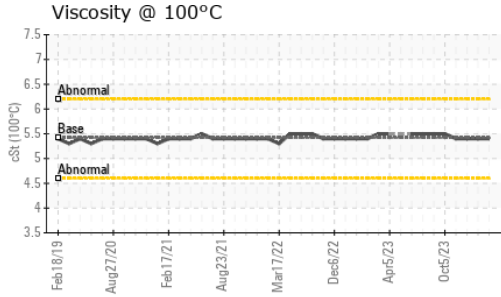
**CONTAMINANTS** method limit/base current history1 history2

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

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

Particles >4µm	ASTM D7647			<b>1082</b>	1561	84702
Particles >6µm	ASTM D7647	>5000		<b>309</b>	431	43851
Particles >14µm	ASTM D7647	>640		<b>23</b>	33	9802
Particles >21µm	ASTM D7647	>160		<b>8</b>	8	1342
Particles >38µm	ASTM D7647	>40		<b>1</b>	2	3
Particles >71µm	ASTM D7647	>10		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/19/16		<b>17/15/12</b>	18/16/12	24/23/20

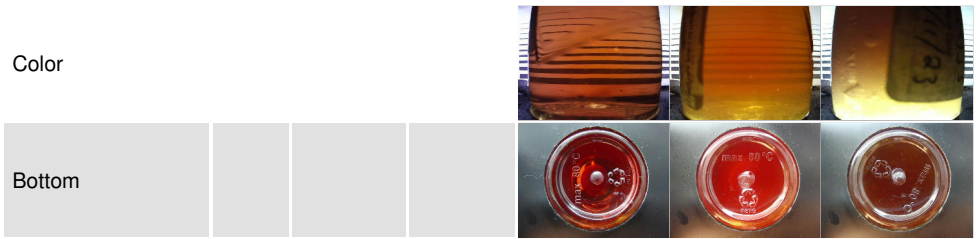
# OIL ANALYSIS REPORT



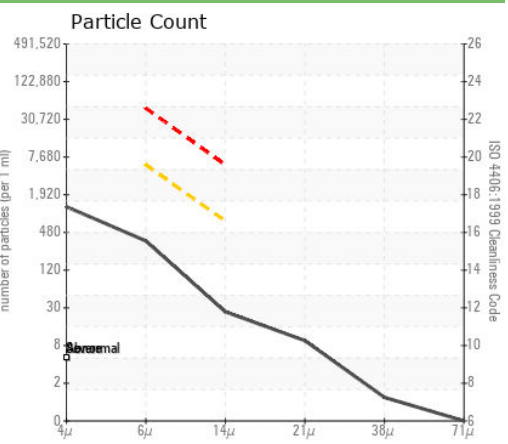
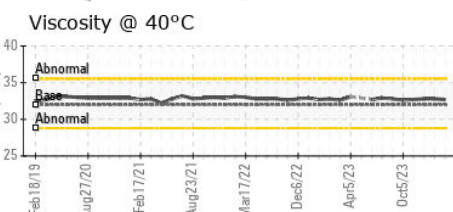
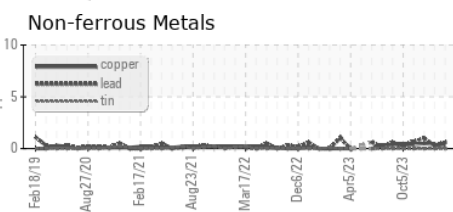
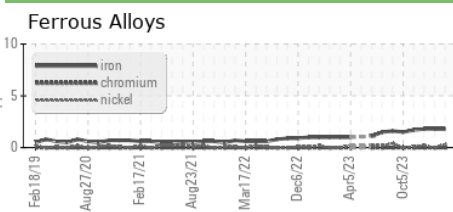
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	.5%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32.0	<b>32.7</b>	32.8
Visc @ 100°C	cSt	ASTM D7279(m)	5.42	<b>5.4</b>	5.4
Viscosity Index (VI)	Scale	ASTM D2270*	103	<b>97</b>	97

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0078800 **Received** : 31 Jan 2024  
**Lab Number** : 02612454 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 5721549 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

**Dryden Fibre**  
 Box 3001, 1 Duke Street  
 Dryden, ON  
 CA P8N 2Z7  
 Contact: Adebukola Adekanye  
 aadekanye@drydenfibre.ca  
 T: (807)223-9950  
 F: (807)223-9176

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.