

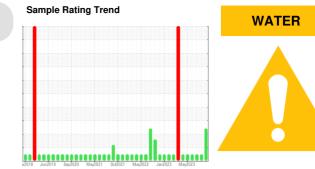
### **PROBLEM SUMMARY**

# TEAM 1 Machine Id 122553 Turbo Generator

Hydraulic System

PETRO CANADA TURBOFLO R&O 32 (1250 GAL)

**COMPONENT CONDITION SUMMARY** 



No relevant graphs to display

### RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

PROBLEMATION	OBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	NORMAL	NORMAL	
Appearance	scalar	Visual*	NORML	WGOIL	NORML	NORML	
Free Water	scalar	Visual*		<b>1</b> %	NEG	NEG	

Customer Id: CANDRY Sample No.: PC0069918 Lab Number: 02591749 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Water Drain-off			?	We advise that you follow the water drain-off procedure for this component.
Resample			?	We recommend an early resample to monitor this condition.
Contact Required			?	Please contact your representative for information regarding the proper sampling kits for your service.
Alert			?	NOTE: We recommend using IND 3 test kits,
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Water Access			?	We advise that you check for the source of water entry.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

### HISTORICAL DIAGNOSIS

10 Aug 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



10 Aug 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



08 Jun 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





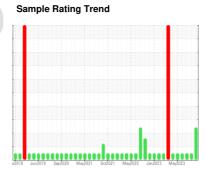
### **OIL ANALYSIS REPORT**

TËAM 1

## 122553 Turbo Generator

**Hydraulic System** 

PETRO CANADA TURBOFLO R&O 32 (1250 GAL)





### **DIAGNOSIS**

#### Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 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

Free water present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code.

#### **Fluid Condition**

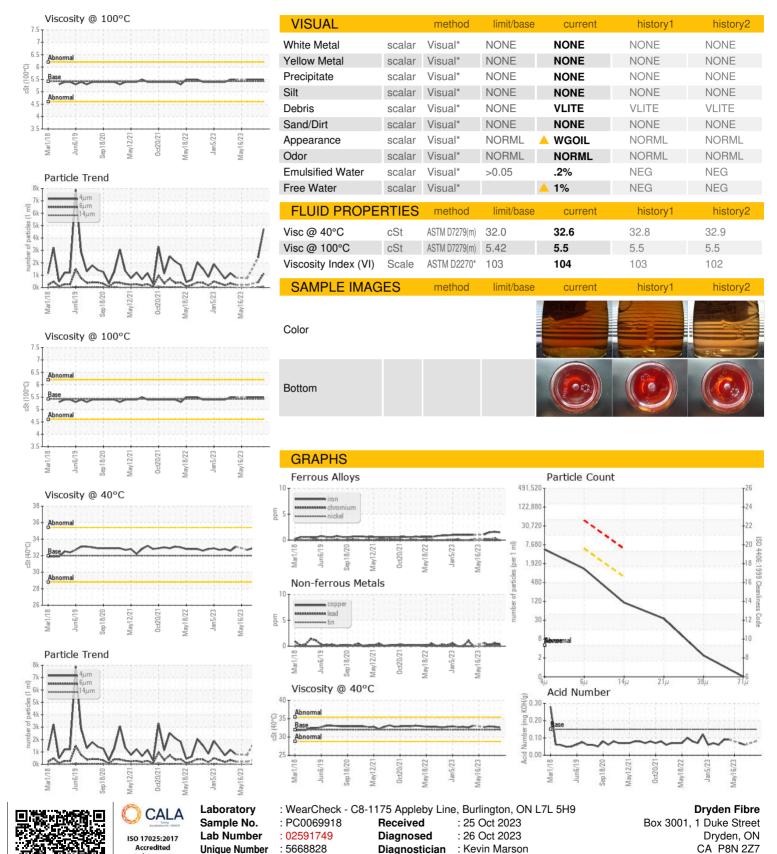
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0069918	PC0074826	PC0070436
Sample Date		Client Info		05 Oct 2023	10 Aug 2023	10 Aug 2023
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				ABNORMAL	NORMAL	NORMAL
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
	ppm	ASTM D5185(m)	>20	0	<1	<1
	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		<1	0	0
	ppm	ASTM D5185(m)	>20	0	0	0
	ppm	ASTM D5185(m)	>20	<1	<1	<1
	ppm	ASTM D5185(m)		<1	<1	<1
	ppm	ASTM D5185(m)	>20	0	0	0
	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5105(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
,	ppm	ASTM D5105(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)		<1	0	<1
	ppm	ASTM D5185(m)		<1	<1	<1
	ppm	ASTM D5185(m)		0	0	0
,	ppm	ASTM D5185(m)		0	0	0
-	ppm	ASTM D5185(m)		0	<1	0
	ppm	ASTM D5185(m)	0	<1	<1	1
		ASTM D5185(m)	4	13	16	15
	ppm	ASTM D5185(m)		3	4	5
	ppm	ASTM D5185(m)	U	1138	1182	1139
	ppm			<1		
	ppm	ASTM D5185(m)			<1	<1
CONTAMINANT		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)	>15	<1	<1	1
	ppm	ASTM D5185(m)		1	2	1
	ppm	ASTM D5185(m)	>20	0	<1	0
FLUID CLEANLI	NESS		limit/base	current	history1	history2
Particles >4μm		ASTM D7647		4740		2402
Particles >6µm		ASTM D7647		1142		415
Particles >14µm		ASTM D7647	>640	97		33
Particles >21µm		ASTM D7647	>160	30		10
Particles >38µm		ASTM D7647	>40	2		1
Particles >71µm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)	>/19/16	19/17/14		18/16/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)		A OTA A DOZ4*	0.45	0.00		0.06

Acid Number (AN)



### **OIL ANALYSIS REPORT**



Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

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.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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