

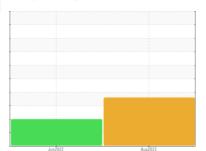
## **PROBLEM SUMMARY**

### Sample Rating Trend

# **SAB1 G2 TURBINE BEARING**

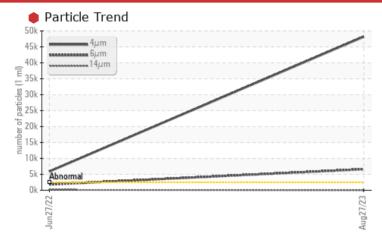
Component **Turbine** 

PETRO CANADA TURBOFLO XL46 (--- GAL)





### **COMPONENT CONDITION SUMMARY**



### **RECOMMENDATION**

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 recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS										
Sample Status			SEVERE	ABNORMAL						
Particles >4µm	ASTM D7647	>2500	<b>48192</b>	<u>▲</u> 5906						
Particles >6µm	ASTM D7647	>640	<b>6609</b>	<u> </u>						
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>23/20/11</b>	<b>2</b> 0/18/14						

Customer Id: ONTQUE Sample No.: WC Lab Number: 02578789 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			
Change Filter			?	We recommend you service the filters on this component.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			
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 Seals			?	Check seals and/or filters for points of contaminant entry.			

### HISTORICAL DIAGNOSIS

### 27 Jun 2022 Diag: Kevin Marson



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. Oil Cleanliness are abnormally high. Particles  $>4\mu m$  are abnormally high. Particles  $>6\mu m$  are abnormally high. Particles  $>14\mu m$  are notably high. Particles  $>21\mu m$  are notably high. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





## **OIL ANALYSIS REPORT**

Sample Rating Trend

# **SAB1 G2 TURBINE BEARING**

**Turbine** 

PETRO CANADA TURBOFLO XL46 (--- GA

# DIAGNOSIS

### Recommendation

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 recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

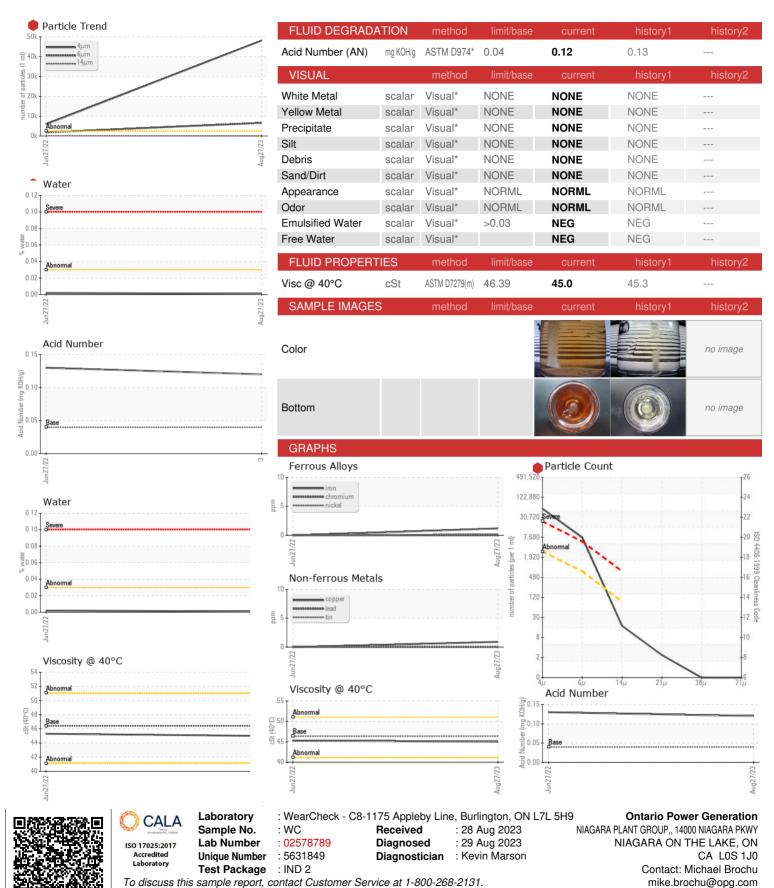
#### **Fluid Condition**

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

L)						
			Jun2022	Aug2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC	PP	
Sample Date		Client Info		27 Aug 2023	27 Jun 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	1	0	
Chromium	ppm	ASTM D5185(m)	>4	0	0	
Nickel	ppm	ASTM D5185(m)	>2	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>10	<1	0	
Lead	ppm	ASTM D5185(m)		0	0	
Copper	ppm	ASTM D5185(m)	>5	<1	0	
Tin	ppm	ASTM D5185(m)	>5	0	0	
Antimony	ppm	ASTM D5185(m)		0	<1	
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	<1	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		0	0	
Calcium	ppm	ASTM D5185(m)		<1	<1	
Phosphorus	ppm	ASTM D5185(m)		1	1	
Zinc	ppm	ASTM D5185(m)	0	3	1	
Sulfur	ppm	ASTM D5185(m)		608	630	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	0	
Sodium	ppm	ASTM D5185(m)		0	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
Water	%	ASTM D6304*	>0.03	0.001	0.002	
ppm Water	ppm	ASTM D6304*	>300	3.2	20.0	
FLUID CLEANL	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>48192</b>	<b>△</b> 5906	
Particles >6µm		ASTM D7647	>640	<b>6609</b>	<u></u> 1806	
Particles >14µm		ASTM D7647	>80	15	<u> </u>	
Particles >21µm		ASTM D7647	>20	2	<b>△</b> 30	
Particles >38µm		ASTM D7647	>4	0	1	
Particles >71µm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>23/20/11</b>	<b>2</b> 0/18/14	



### **OIL ANALYSIS REPORT**



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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