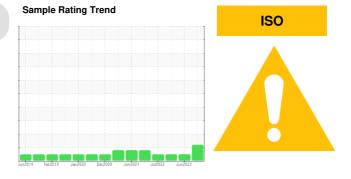


### **PROBLEM SUMMARY**

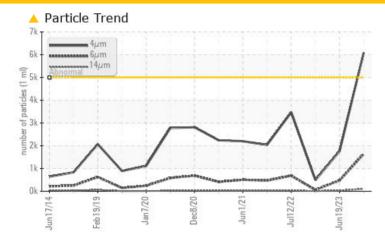
## BRUCE A/2/71210 2-71210-P1-PM Lo Brg Level

**Lower Bearing** 

PETRO CANADA TURBOFLO XL68 (--- GAL)



#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	NORMAL	NORMAL				
Particles >4µm	ASTM D7647	>5000	<b>6085</b>	1762	491				
Particles >6µm	ASTM D7647	>1300	<b>1645</b>	476	59				
Oil Cleanliness	ISO 4406 (c)	>19/17/15	<u>^</u> 20/18/14	18/16/12	16/13/10				

**Customer Id: BRUTIV Sample No.:** WC0871682 Lab Number: 02603826 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.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### HISTORICAL DIAGNOSIS

#### 19 Jun 2023 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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.



#### 29 Nov 2022 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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.

# view report

#### 12 Jul 2022 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The Rotating Pressure Vessel Oxidation Test (RPVOT – ASTM D2272) result indicates suitable amounts of anti-oxidant(s) present in the oil. The condition of the oil is suitable for further service.



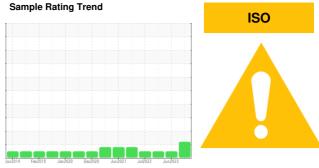


## **OIL ANALYSIS REPORT**

# BRUCE A/2/71210 2-71210-P1-PM Lo Brg Level

**Lower Bearing** 

PETRO CANADA TURBOFLO XL68 (--- GAL)



#### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. 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 light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jun2014 Fe	sozula JanZUZU Dec		Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871682	WC0801493	WC
Sample Date		Client Info		30 Nov 2023	19 Jun 2023	29 Nov 2022
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				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>10	0	0	0
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)	>5	0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	0
Lead	ppm	ASTM D5185(m)	>5	<1	<1	0
Copper	ppm	ASTM D5185(m)	>5	<1	<1	0
Tin	ppm	ASTM D5185(m)	>5	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)		<1	0	<1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	<1	0
Calcium	ppm	ASTM D5185(m)		0	<1	0
Phosphorus	ppm	ASTM D5185(m)		<1	<1	0
Zinc	ppm	ASTM D5185(m)	0	<1	2	<1
Sulfur	ppm	ASTM D5185(m)		614	614	633
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>5	<1	0	0
Sodium	ppm	ASTM D5185(m)	>5	0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Water	%	ASTM D6304*	>0.005	0.003	0.001	0.001
ppm Water	ppm	ASTM D6304*	>50	30	3.0	2.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<b>△</b> 6085	1762	491
Particles >6μm		ASTM D7647		<u>▲</u> 1645	476	59
Particles >14µm		ASTM D7647	>320	102	34	9
Particles >21µm		ASTM D7647		24	8	4
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/15	△ 20/18/14	18/16/12	16/13/10
		(0)				



#### **OIL ANALYSIS REPORT**

