

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area SAB1 SAB1 G3 Component **Thrust Bearing** Fluid PETRO CANADA TURBOFLO XL46 (3000 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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

All component wear rates are normal.

Contamination

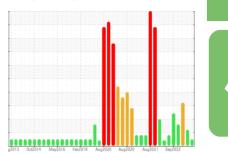
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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



Report Id: ONTQUE [WCAMIS] 02604988 (Generated: 12/27/2023 16:53:30) Rev: 1





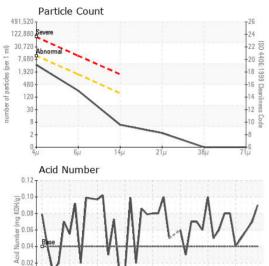
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864654	WC0828613	WC0642837
Sample Date		Client Info		21 Dec 2023	27 Aug 2023	27 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	1	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<1	<1	0
Lead	ppm	ASTM D5185(m)	>60	0	0	<1
Copper	ppm	ASTM D5185(m)	>7	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>40	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
ADDITIVES Boron	ppm	method ASTM D5185(m)	limit/base	current 0	history1 0	history2 <1
	ppm ppm		limit/base			
Boron		ASTM D5185(m)	limit/base	0	0	<1
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	limit/base	0 0	0 0	<1 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 0	0 0 0	<1 0 0
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 0 0	0 0 0 0	<1 0 0 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 0 0 0	0 0 0 0 0	<1 0 0 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 0 <1	0 0 0 0 0 <1	<1 0 0 0 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 0 0 <1 1	0 0 0 0 <1 2	<1 0 0 <1 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 0 2 1 1 1	0 0 0 0 <1 2 2	<1 0 0 0 <1 0 1 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 0 <1 1 1 1 713	0 0 0 0 <1 2 2 673	<1 0 0 <1 0 1 1 695
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	0 0 0 0 <1 1 1 713 <1	0 0 0 0 <1 2 2 673 <1	<1 0 0 <1 0 1 1 695 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 limit/base	0 0 0 0 <1 1 1 713 <1 vurrent	0 0 0 0 <1 2 2 673 <1 history1	<1 0 0 <1 0 1 1 695 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	0 limit/base	0 0 0 0 <1 1 1 713 <1 2 1 0 urrent 1	0 0 0 0 <1 2 2 673 <1 history1 1	<1 0 0 <1 0 1 1 1 695 <1 history2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 limit/base >20	0 0 0 0 <1 1 1 713 <1 2 1 0	0 0 0 0 <1 2 2 673 <1 history1 1 0	<1 0 0 (1 1 1 695 <1 history2 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 limit/base >20	0 0 0 0 <1 1 1 713 <1 2 1 <i>current</i> 1 0 <1	0 0 0 0 <1 2 2 673 <1 history1 1 0 <1	<1 0 0 (1 1 1 695 <1 history2 <1 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 limit/base >20 >20 limit/base	0 0 0 0 <1 1 1 713 <1 <i>current</i> 1 0 <1 <i>current</i>	0 0 0 0 <1 2 2 673 <1 history1 1 0 <1 <i>history1</i>	<1 0 0 1 0 1 1 695 <1 history2 <1 0 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 limit/base >20 >20 limit/base >20	0 0 0 0 <1 1 1 1 713 <1	0 0 0 0 <1 2 2 673 <1 history1 1 0 <1 history1 9220	<1 0 0 3 4 1 0 1 1 695 <1 695 <1 0 4 1 0 4 1 0 5 4 1 0 1 0 4 1 0 1 1 1 695 4 1 1 1 695 5 4 1 1 1 1 695 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 1 1 20 20 20 1 10000 21300 21300 2160	0 0 0 0 <1 1 1 713 <1 713 <1 <i>current</i> 1 0 <1 <i>current</i> 3700 216	0 0 0 0 <1 2 2 673 <1 history1 1 0 <1 history1 9220 426	<1 0 0 0 <1 0 1 1 695 <1 history2 <1 0 <1 0 <1 0 <1 bistory2 ×1 0 ×1 0 ×1 ×1 0 ×1 ×1 0 ×1 ×1 0 ×1 ×1 ×1 ×1 ×1 0 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D7647 ASTM D7647	0 0 1 1 20 20 20 1 10000 21300 21300 2160	0 0 0 0 <1 1 1 1 713 <1 2 1 0 <1 2 1 0 <1 3700 216 5	0 0 0 0 2 1 2 2 673 <1 history1 1 0 <1 1 0 <1 history1 9220 426 8	<1 0 0 0 1 1 1 695 <1 history2 <1 0 <1 0 <1 history2 4 24934 4651 374
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 limit/base >20 >20 limit/base >20 limit/base >10000 >1300 >160 >40	0 0 0 0 (1 1 1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 <1 713 713 713 713 713 713 713 713 713 71	0 0 0 0 (1 2 2 673 <1 2 673 <1 1 1 0 <1 1 1 0 <1 1 9220 426 8 3	<1 0 0 1 1 695 <1 bistory2 <1 0 <1 bistory2 4 5 6 5 6 7 1 6 7 7 7 7 7 7 7 7 7 7 7 7 7

Submitted By: ?

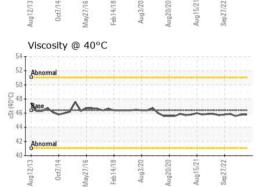


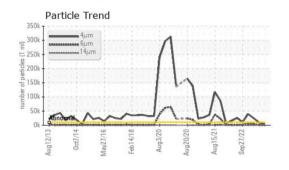
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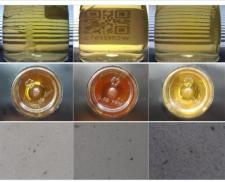
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.09	0.07	0.06
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	🔺 VLITE	▲ VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.39	45.8	45.8	45.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2





Bottom

Color



PrtFilter

