

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Component Lube System

Fluid PETRO CANADA TURBOFLO XL32 (--- LTR)

# DIAGNOSIS

#### Recommendation

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

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.

N method Client Info Client Info Client Info Client Info Client Info Client Info WC Method WC Method WC Method ASTM D5185(m) ASTM D5185(m)	>10 >10 >20	current         PC0076261         11 Oct 2023         0         0         NA         NORMAL         current         NEG         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <1         0         0         0         0         0         0         <1         0	history1                              history1            history1            history1   <	history2
Client Info Client Info Client Info Client Info Client Info WC Method WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >10 >10 >10 >20 >20 >20	11 Oct 2023 0 0 N/A NORMAL Current 0 0 0 0 0 1 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	   history1  history1   	   history2        -
Client Info Client Info Client Info Client Info WC Method WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >10 >10 >10 >20 >20 >20	0 0 N/A NORMAL 0 Current 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	  history1  history1  	  history2  history2  
Client Info Client Info Client Info WC Method WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >10 >10 >10 >20 >20 >20	0 N/A NORMAL Current NEG 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0	  history1  history1  	 history2  history2        -
Client Info method WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >10 >10 >10 >20 >20 >20	N/A NORMAL Current NEG 0 0 0 0 0 0 0 1 0 0 1 1 0 0 1 0 0 0 0	 history1  history1        -	 history2  history2        -
Method WC Method ASTM D5185(m) ASTM D5185(m)	>0.05 limit/base >20 >10 >10 >10 >20 >20 >20	NORMAL current NEG 0 0 0 0 0 4 1 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0	history1  history1  history1   history1	history2  history2  history2  history2  history2  history2  history2 his
WC Method           method           ASTM D5185(m)	>0.05 limit/base >20 >10 >10 >10 >20 >20 >20	current           NEG           current           0           0           0           0           -           0           <1	history1 history1	history2  history2        -
WC Method           method           ASTM D5185(m)	>0.05 limit/base >20 >10 >10 >10 >20 >20 >20	NEG current 0 0 0 0 <1 0 <1 <1 0 <1 0 0 0 0 0 0 0 0 0 0 0 0 0	 history1        -	 history2        -
method           ASTM D5185(m)           ASTM D5185(m)	limit/base >20 >10 >10 >10 >20 >20	current           0           0           0           0           0           <1		
ASTM D5185(m)	>20 >10 >10 >10 >20 >20	0 0 0 <1 0 <1 <1 <1 0 0 0 0 0		
ASTM D5185(m)	>10 >10 >10 >20 >20	0 0 <1 0 <1 <1 <1 0 0 0 0 0		
ASTM D5185(m)	>10 >10 >20 >20	0 0 <1 0 <1 <1 0 0 0 0 0		
ASTM D5185(m)	>10 >20 >20	0 <1 0 <1 <1 <1 0 0 0 0 0		    
ASTM D5185(m)	>10 >20 >20	<1 0 <1 <1 0 0 0 0		   
ASTM D5185(m)	>10 >20 >20	0 <1 <1 0 0 0 0	   	   
ASTM D5185(m)	>20 >20	0 <1 <1 0 0 0 0		
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >20	<1 <1 0 0 0 0 0 0		
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20	<1 0 0 0 0		
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 0		
ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0		
ASTM D5185(m) ASTM D5185(m)		0 0		
ASTM D5185(m)		0		
ASTIN D3103(III)		0		
	limit/base	ourropt		
	0	current	history1	history2
ASTM D5185(m)				
ASTM D5185(m)		0		
ASTM D5185(m)	0	0		
ASTM D5185(m)		0		
ASTM D5185(m)	0	0		
ASTM D5185(m)		<1		
ASTM D5185(m)	5	3		
ASTM D5185(m)	0	<1		
ASTM D5185(m)	750	638		
ASTM D5185(m)		<1		
method	limit/base	current	history1	history2
ASTM D5185(m)	>15	0		
ASTM D5185(m)		0		
ASTM D5185(m)	>20	0		
S method	limit/base	current	history1	history2
ASTM D7647	>5000	912		
ASTM D7647	>1300	270		
ASTM D7647	>160	18		
	>40	4		
	>10	0		
ASTM D7647		0		
	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) S method ASTM D7647 ASTM D7647 ASTM D7647	ASTM D5185(m)         >15           ASTM D5185(m)            ASTM D5185(m)         >20           S         method         limit/base           ASTM D7647         >5000           ASTM D7647         >1300           ASTM D7647         >160           ASTM D7647         >40	ASTM D5185(m)       >15       O         ASTM D5185(m)       O       ASTM D5185(m)       O         ASTM D5185(m)       >20       O       O         S       method       limit/base       current         ASTM D7647       >5000       912       ASTM D7647         ASTM D7647       >1300       270         ASTM D7647       >160       18         ASTM D7647       >40       4         ASTM D7647       >10       O	ASTM D5185(m)       >15       0          ASTM D5185(m)       0          ASTM D5185(m)       >20       0          ASTM D5185(m)       >20       0          S       method       limit/base       current       history1         ASTM D7647       >5000       912          ASTM D7647       >1300       270          ASTM D7647       >160       18          ASTM D7647       >40       4          ASTM D7647       >10       0



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Viscosity @ 100°C	FLUID DEGRA		method	limit/base	current	history1	history2
7-	Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.03		
6.5 Abnormal	VISUAL		method	limit/base	current	history1	history2
은 5.5 - 영 5 - Abnormal	White Metal	scalar	Visual*	NONE	NONE		
4.5 +	Yellow Metal	scalar	Visual*	NONE	NONE		
4	Precipitate	scalar	Visual*	NONE	NONE		
3.5	Silt	scalar	Visual*	NONE	NONE		
0et11/23	Silt Debris	scalar	Visual*	NONE	VLITE		
Deutide Turnd	Sand/Dirt	scalar	Visual*	NONE	NONE		
Particle Trend	Appearance	scalar	Visual*	NORML	NORML		
<del>≩</del> 5k <del>μοποιηται</del> 4μm	Odor	scalar	Visual*	NORML	NORML		
= second 14µm	Emulsified Water	scalar	Visual*	>0.05	NEG		
	Free Water	scalar	Visual*		NEG		
50 30 20 + 	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Ē 1k	Visc @ 40°C	cSt	ASTM D7279(m)	33.86	32.2		
0k	Visc @ 100°C	cSt	ASTM D7279(m)	5.60	5.7		
0et11/23	Viscosity Index (VI)	Scale	ASTM D2270*	101	117		
Viscosity @ 100°C	SAMPLE IMAC	SES	method	limit/base	current	history1	history2
7.5							
6.5 Abnormal	Color				CHAR CARE	no image	no image
6 6 <b>Base</b> 5.5 <b>4</b>							
5 - Abnormal							
4.5 +							
4	Bottom					no image	no image
	GRAPHS						
0000	<sup>3</sup> GRAPHS						
Viscosity @ 40°C	Ferrous Alloys		Particle Count		20		
40 T	10iron ]			491,52			1 <sup>26</sup>
<sup>38</sup> - Abnormal	E 5-			122,88	Severe		-24
36 Base	0			30,72			-22
e 34 Base 34 34 34 34 34 34 34 34 34 34 34 34 34	0ct11/23			89,7 [ber 1 m]	0 Abnormal		-20 4406:1999 -18 1999 Ge
32 Abnormal	Oct			1.92 es	0	••••••	-18 5
30	Non-ferrous Meta	s		optied 48			
28 +	copper			Jo 12	0		-14 Iness Code
0ct11/23	E. 5-				0-		-12 Code
Particle Trend	0				8-		-10
	0ct11/23			0ct11/23	2-		-8
<sup>2</sup> <sub>π</sub> Forman θμm θμm θμm				Oct	0 4µ 6µ	14µ 21µ	38µ 71µ
<u>α</u> 4 κ 4 μm	Viscosity @ 40°C			0.0 KOH/g)			orp orp
and and a second s	Abnormai			0.0 ق 0.0	Base		
	유명 35 - Base 아이 35 - Base 정 30			e 0.0			
ē 1k -	25			/23			
	0ct11/23			0ct11/23 Aci	0ct11/23		0ct11/23
0411/23	Oct1			Oct1	Oct1		Octi
Laboratory Sample No. Lab Number Laboratory To discuss this sample repor Test denoted (*) outside sco Validity of results and interpr	r : 02598416 er : 5683496 je : IND 2 ( Additional T t, contact Customer Serv be of accreditation, (m) m	Received Diagnose Diagnose ests: KV ice at 1-8 ice hod mo	d : 23   ed : 24   tician : Kev 100, VI ) 800-268-213 ; polified, (e) te	Nov 2023 Nov 2023 rin Marson 1. sted at exter	mal lab.	joshyne: T:	

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