

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		
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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		
≩ 5k μοποιηται 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 Base 5.5 4							
5 - Abnormal							
4.5 +							
4	Bottom					no image	no image
	GRAPHS						
0000	³ GRAPHS						
Viscosity @ 40°C	Ferrous Alloys		Particle Count		20		
40 T	10iron]			491,52			1 ²⁶
³⁸ - 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
² _π 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:	

Contact/Location: Josh Hynes - TERHAM