

OIL ANALYSIS REPORT

[70036864] **TURBOFLO 32**

Component **New (Unused) Oil** Fluid

PETRO CANADA TURBOFLO 32 (--- GAL)

Sample Rating Trend NORMAL

DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil.

Contamination

The water content is negligible.

Fluid Condition

The viscosity index is 141.

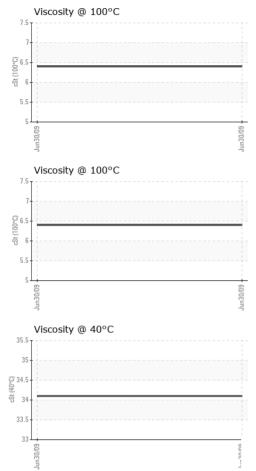
				Jun 2009		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC		
Sample Date		Client Info		30 Jun 2009		
Machine Age	сус	Client Info		0		
Oil Age	сус	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	NC	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS	}	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		0		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		0		
Lead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		0		
Tin	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		3		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		0		
Calcium	ppm	ASTM D5185(m)		0		
Phosphorus	ppm	ASTM D5185(m)		117		
Zinc	ppm	ASTM D5185(m)		<1		
Sulfur	ppm	ASTM D5185(m)		37		
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		0		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)		0		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3022		
Particles >6µm		ASTM D7647		586		
Particles >14μm		ASTM D7647		54		
Particles >21µm		ASTM D7647		10		
Particles >38µm		ASTM D7647		1		
Particles >71µm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)		19/16/13		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
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Acid Number (AN) mg KOH/g ASTM D974*

0.035



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
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FLUID PROPE	KIIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		34.1		
Visc @ 100°C	cSt	ASTM D7279(m)		6.4		
Viscosity Index (VI)	Scale	ASTM D2270*		141		

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GRAPHS Ferrous Alloys Particle Count 491,520 122.880 30,720 7.680 1.920 Non-ferrous Metals 480 120 Viscosity @ 40°C Acid Number 35.5 O 34.5 b 0.02 34 SS 0.01 33.5 0.00 PG 33



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: PC Lab Number : 01551189 Unique Number : 2948531

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 22 Jul 2009 **Tested**

: 23 Jul 2009 Diagnosed

Test Package: MAR 2 (Additional Tests: KV100, PrtCount, TAN Man, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

Suncor - Terra Nova Projects

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