

OIL ANALYSIS REPORT

[WO#49432-1] TRP DIESEL (S/N 97847-04)

Component

Diesel Engine

PETRO CANADA 40W (35 GAL)

Sample Rating Trend May2005 May2005 May2005



DIAGNOSIS

Recommendation

Check for low coolant level. We recommend an early resample to confirm this situation, however, a minimum of 10 hours, 500 miles or 800 kilometers on the oil is required before resampling to prevent false positive glycol reactions that can be experienced with new oil.

Wear

All component wear rates are normal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core)

Contamination

Water treatment chemicals present, indicating slow coolant leak.

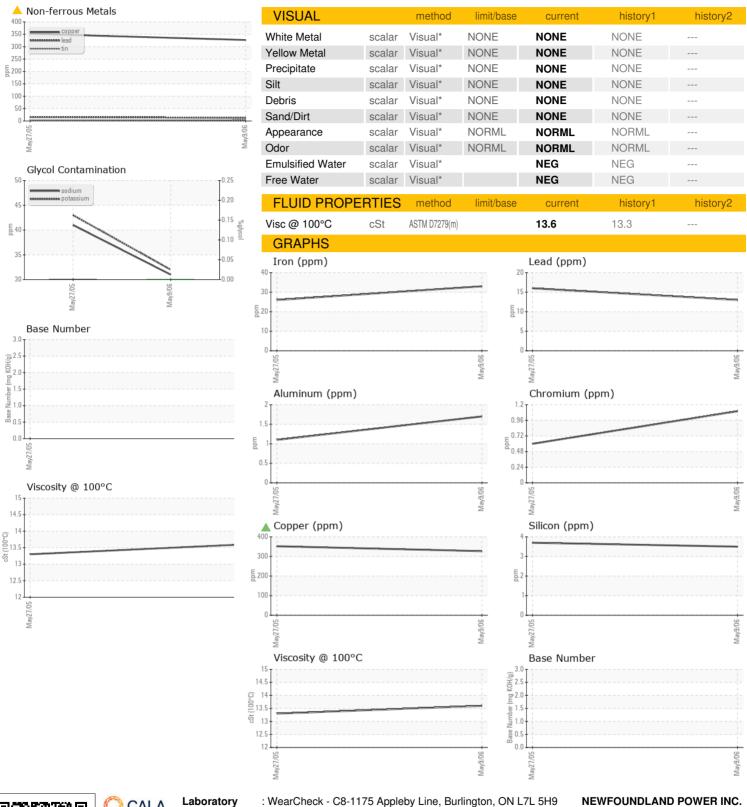
Fluid Condition

The condition of the oil is acceptable for the time in service.

			May2005	May2006		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC293041	WC666776	
Sample Date		Client Info		09 May 2006	27 May 2005	
Machine Age	hrs	Client Info		7378	7297	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0	<1.0	
Water		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		33	26	
Chromium	ppm	ASTM D5185(m)		1	<1	
Nickel	ppm	ASTM D5185(m)		0	0	
Titanium	ppm	ASTM D5185(m)		<1	<1	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)		2	1	
Lead	ppm	ASTM D5185(m)		13	16	
Copper	ppm	ASTM D5185(m)		▲ 327	▲ 352	
Tin	ppm	ASTM D5185(m)		4	2	
Vanadium	ppm	ASTM D5185(m)		0	0	
	ррпп		11 11 /1	-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		3	6	
Barium	ppm	ASTM D5185(m)		<1	<1	
Molybdenum	ppm	ASTM D5185(m)		3	3	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)		32	44	
Calcium	ppm	ASTM D5185(m)		2348	2288	
Phosphorus	ppm	ASTM D5185(m)		888	870	
Zinc	ppm	ASTM D5185(m)		987	894	
Sulfur						
	ppm	ASTM D5185(m)		4050	3787	
CONTAMINAN		ASTM D5185(m) method	limit/base	4050 current	3787 history1	
		` '	limit/base			
Silicon	TS	method	limit/base	current	history1	history2
Silicon Sodium	TS ppm	method ASTM D5185(m)	limit/base	current 4	history1	history2
Silicon Sodium Potassium	TS ppm ppm	method ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 31	history1 4 41	history2
Silicon Sodium Potassium	TS ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	current 4 31 ▲ 32	history1 4 ▲ 41 ▲ 43	history2
Silicon Sodium Potassium Glycol INFRA-RED	TS ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7922*		current 4 31 32 0.0	history1 4 41 43 0.0	history2
Silicon Sodium Potassium Glycol INFRA-RED Soot %	TS ppm ppm ppm %	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7922* method		current 4 31 ▲ 32 0.0 current	history1 4 ▲ 41 ▲ 43 ▲ 0.0 history1	history2
Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	TS ppm ppm ppm %	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7922* method ASTM D7844*		current 4 31 ▲ 32 0.0 current 0.1	history1 4 ▲ 41 ▲ 43 ▲ 0.0 history1 0	history2 history2
Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm % % Abs/cm Abs/.1mm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7922* method ASTM D7844* ASTM D7624* ASTM D7415*		current 4 31 ▲ 32 0.0 current 0.1 6	history1 4 ▲ 41 ▲ 43 ▲ 0.0 history1 0 5	history2
Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % % Abs/cm Abs/.1mm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7922* method ASTM D7844* ASTM D7624* ASTM D7415*	limit/base	current 4 31 ▲ 32 0.0 current 0.1 6 23	history1 4 ▲ 41 ▲ 43 ▲ 0.0 history1 0 5 25	history2 history2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: PC293041 : 01298943

: 2229259

Recieved Diagnosed

: 18 May 2006 : 19 May 2006

Diagnostician

Test Package : MOB 2 (Additional Tests: Glycol, SCREEN) 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.

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