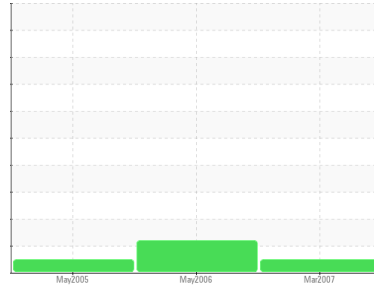




Machine Id
TRP DIESEL (S/N 97847-04)

Component
Diesel Engine

Fluid
PETRO CANADA 40W (35 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal. A decrease in the copper level is noted.

Contamination

There is no indication of any contamination in the component.

Fluid Condition

The condition of the oil is acceptable for the time in service. The viscosity index is 112.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	PC293469	PC293041	WC666776
Sample Date	Client Info	27 Mar 2007	09 May 2006	27 May 2005
Machine Age	hrs	Client Info	0	7378
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	Not Changd
Sample Status		NORMAL	ABNORMAL	NORMAL

CONTAMINATION method limit/base current history1 history2

Fuel	WC Method	<1.0	<1.0	<1.0
Water	WC Method	NEG	NEG	NEG

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	47	33	26
Chromium	ppm	ASTM D5185(m)	2	1	<1
Nickel	ppm	ASTM D5185(m)	0	0	0
Titanium	ppm	ASTM D5185(m)	<1	<1	<1
Silver	ppm	ASTM D5185(m)	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	2	2	1
Lead	ppm	ASTM D5185(m)	11	13	16
Copper	ppm	ASTM D5185(m)	▲ 269	▲ 327	▲ 352
Tin	ppm	ASTM D5185(m)	5	4	2
Vanadium	ppm	ASTM D5185(m)	<1	0	0

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	10	3	6
Barium	ppm	ASTM D5185(m)	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	4	3	3
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	35	32	44
Calcium	ppm	ASTM D5185(m)	2543	2348	2288
Phosphorus	ppm	ASTM D5185(m)	958	888	870
Zinc	ppm	ASTM D5185(m)	1059	987	894
Sulfur	ppm	ASTM D5185(m)	4523	4050	3787

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	5	4	4
Sodium	ppm	ASTM D5185(m)	25	31	▲ 41
Potassium	ppm	ASTM D5185(m)	26	▲ 32	▲ 43
Glycol	%	ASTM D7922*	0.0	0.0	▲ 0.0

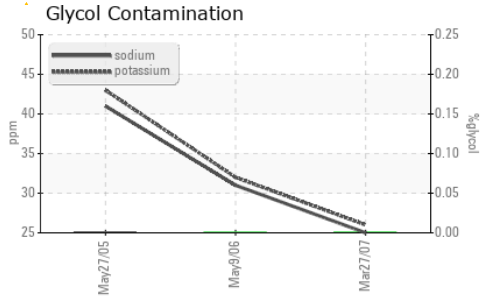
INFRA-RED method limit/base current history1 history2

Soot %	%	ASTM D7844*	0.3	0.1	0
Nitration	Abs/cm	ASTM D7624*	5	6	5
Sulfation	Abs/.1mm	ASTM D7415*	22	23	25

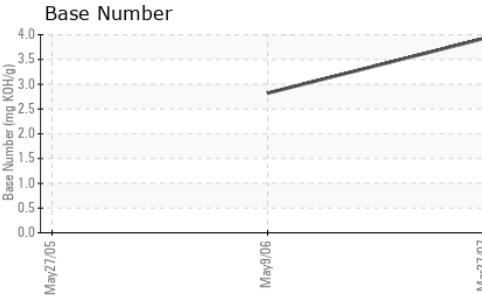
FLUID DEGRADATION method limit/base current history1 history2

Oxidation	Abs/.1mm	ASTM D7414*	12	14	15
Acid Number (AN)	mg KOH/g	ASTM D974*	1.95	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	3.92	2.82	---

OIL ANALYSIS REPORT

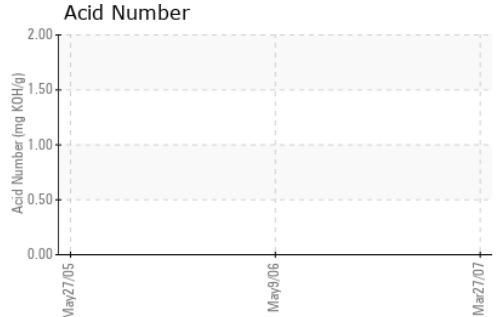
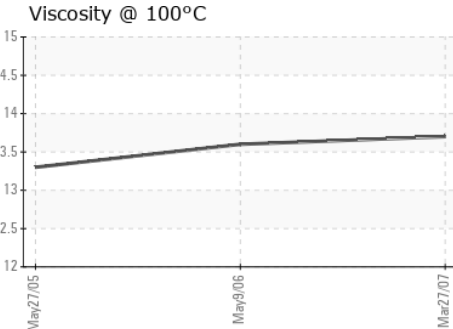
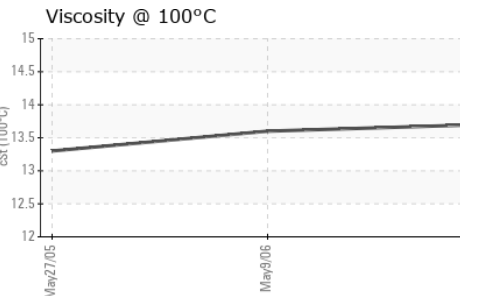
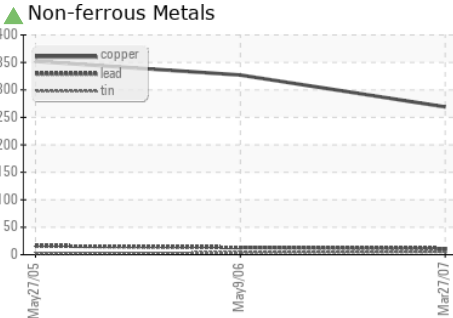
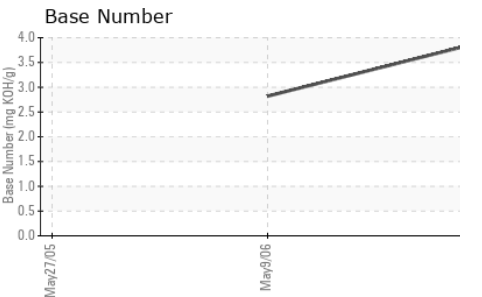
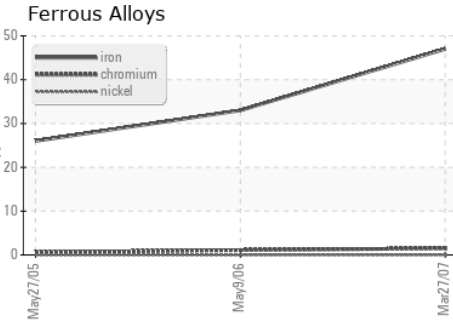
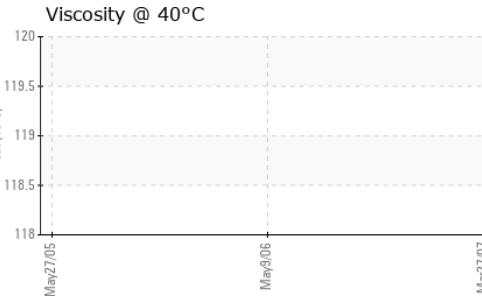


TEST	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG



TEST	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	119	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.7	13.6	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	112	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC293469 **Received** : 30 Mar 2007
Lab Number : 01371872 **Diagnosed** : 04 Apr 2007
Unique Number : 2422300 **Diagnostician** :
Test Package : IND 2 (Additional Tests: Glycol, KV40, TAN Auto, VI, Visual)

NEWFOUNDLAND POWER INC.
 50 DUFFY PLACE, PO BOX 8910
 ST. JOHNS, NL
 CA A1B 3P6
 Contact: Shane Reid
 sreid@newfoundlandpower.com
 T: (709)737-5209
 F: (709)737-2926

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.