



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DETROIT 06R0855576

Component
Diesel Engine

Fluid
TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR	TR01366089	TR01351877
Sample Date		Client Info		17 Mar 2007	02 Mar 2007	20 Dec 2006
Machine Age	kms	Client Info		26417	32656	24233
Oil Age	kms	Client Info		698	0	0
Filter Age	kms	Client Info		698	0	0
Oil Changed		Client Info		Changed	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)		67	76	51
Chromium	ppm	ASTM D5185(m)		2	4	3
Nickel	ppm	ASTM D5185(m)		0	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	<1	<1
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)		3	4	3
Lead	ppm	ASTM D5185(m)		<1	2	2
Copper	ppm	ASTM D5185(m)		14	▲ 76	35
Tin	ppm	ASTM D5185(m)		2	3	2
Vanadium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINATION

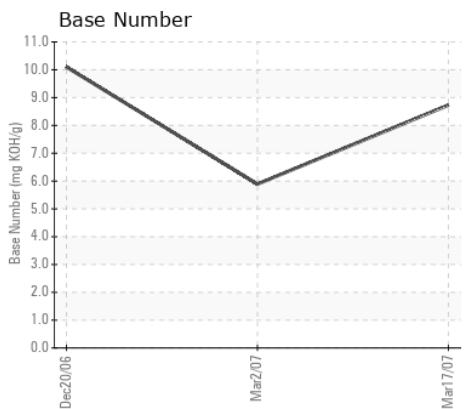
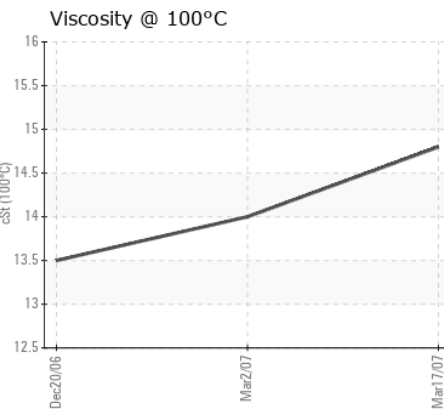
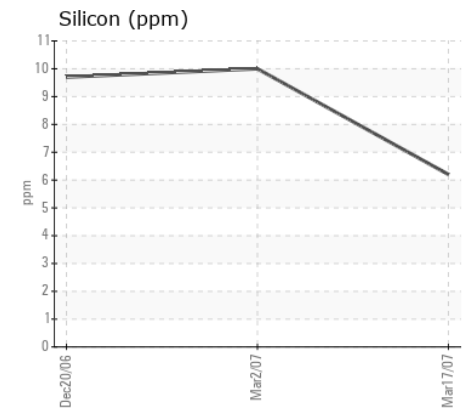
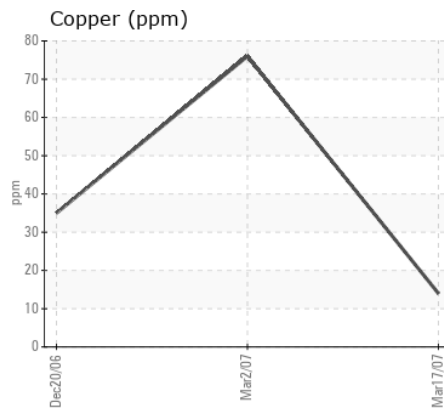
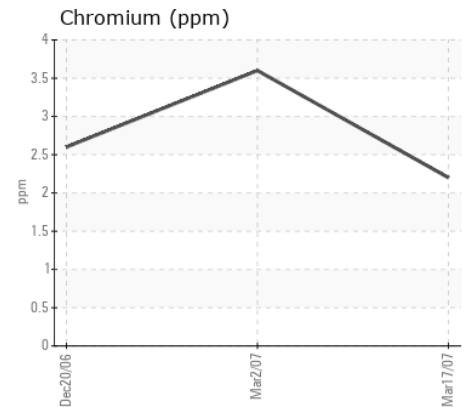
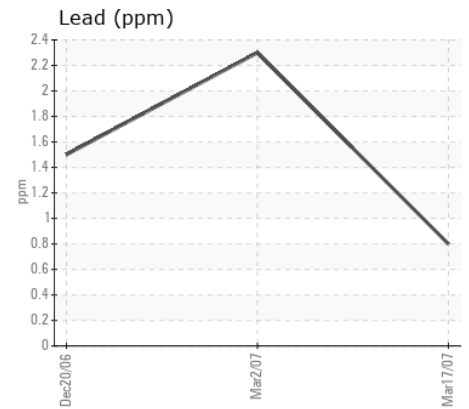
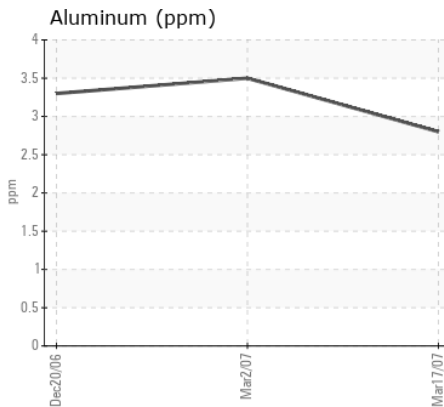
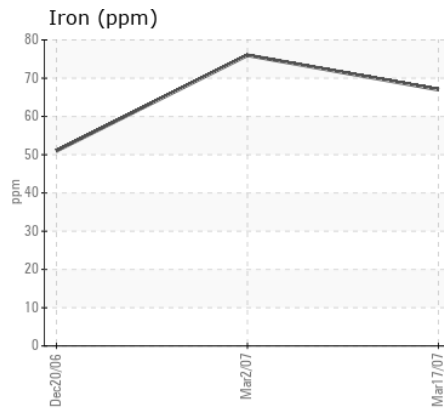
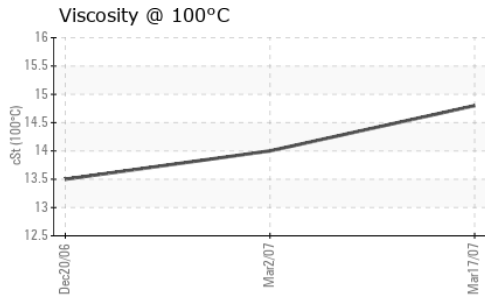
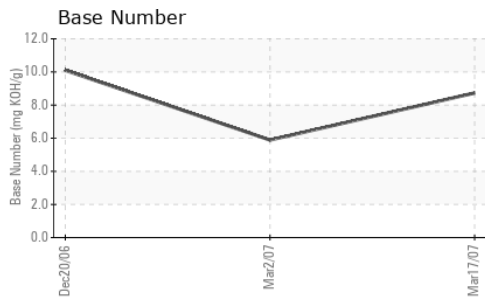
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185(m)		6	10	10
Potassium	ppm	ASTM D5185(m)		4	24	21
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*		1.4	1.1	0.6
Nitration	Abs/cm	ASTM D7624*		12	12	11
Sulfation	Abs/.1mm	ASTM D7415*		29	28	24
Emulsified Water	scalar	Visual*		NEG	NEG	NEG

FLUID CONDITION

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		8	19	17
Boron	ppm	ASTM D5185(m)		44	2	2
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		4	5	4
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)		104	18	17
Calcium	ppm	ASTM D5185(m)		4157	4523	4275
Phosphorus	ppm	ASTM D5185(m)		1303	1454	1410
Zinc	ppm	ASTM D5185(m)		1486	1744	1650
Sulfur	ppm	ASTM D5185(m)		4433	4941	4794
Oxidation	Abs/.1mm	ASTM D7414*		18	18	16
Base Number (BN)	mg KOH/g	ASTM D2896*		8.73	5.89	10.1
Visc @ 100°C	cSt	ASTM D7279(m)		14.8	14.0	13.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : TR
Lab Number : **01370014**
Unique Number : 2412435
Test Package : MOB 2
Received : 22 Mar 2007
Tested : 26 Mar 2007
Diagnosed :

CAMIONNAGE YVES AUDET INC
 22-R393-EP-235
 LA-SARBE-DE, SK
 CA S9Z 2T5
 Contact: Yves Audet

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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