



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id  
**BILL TRUCK 2010 CHR TRUCK**  
 Component  
**Gasoline Engine**  
 Fluid  
**TRC PRO-SPEC MULTI-VIS SB 5W20 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR03427651	---	---
Sample Date		Client Info		09 Jan 2014	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		58327	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				MARGINAL	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	42	---	---
Chromium	ppm	ASTM D5185m	>20	2	---	---
Nickel	ppm	ASTM D5185m	>5	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>40	4	---	---
Lead	ppm	ASTM D5185m	>50	5	---	---
Copper	ppm	ASTM D5185m	>155	2	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

**CONTAMINATION**

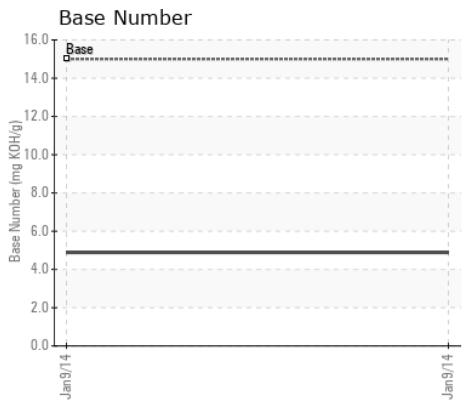
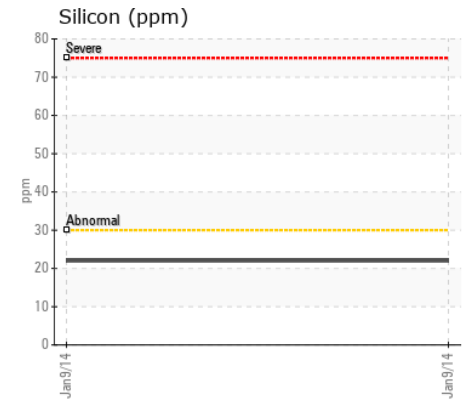
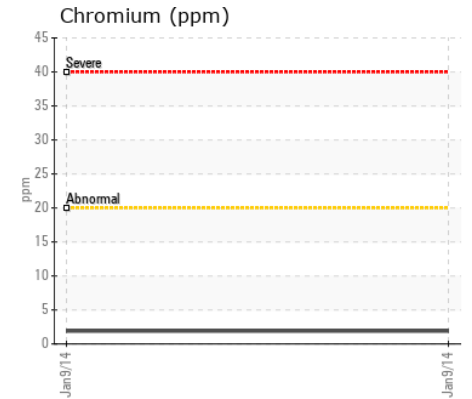
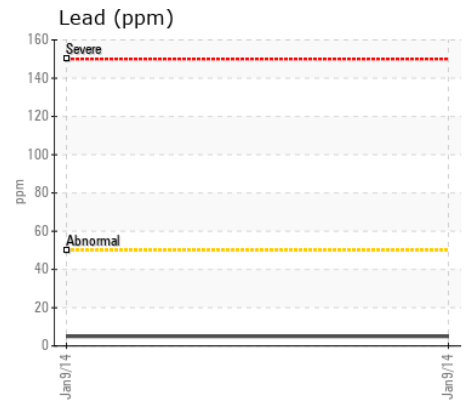
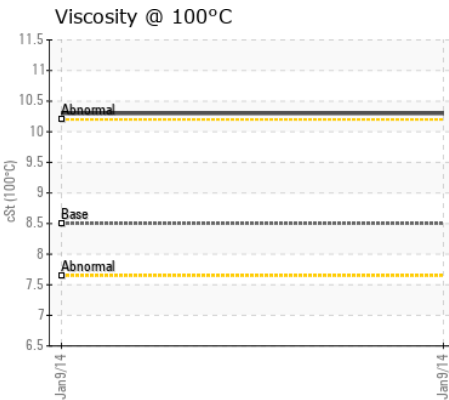
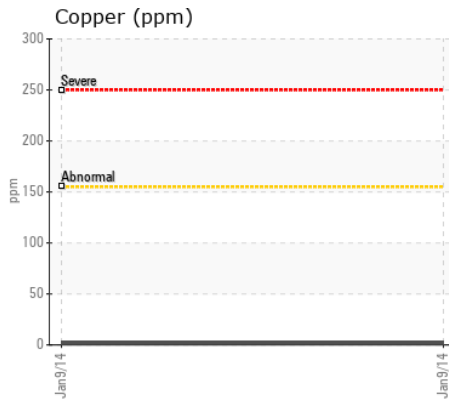
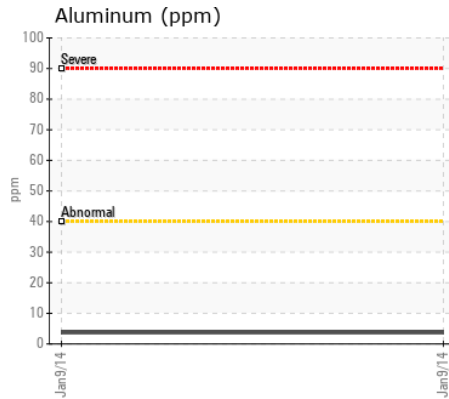
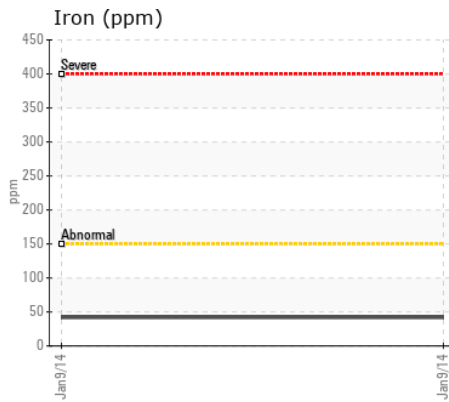
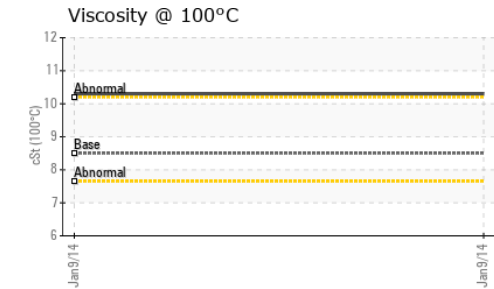
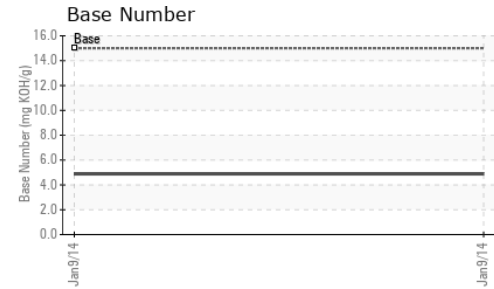
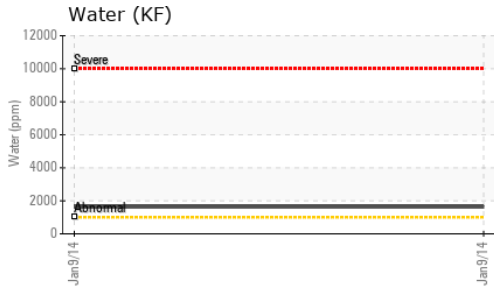
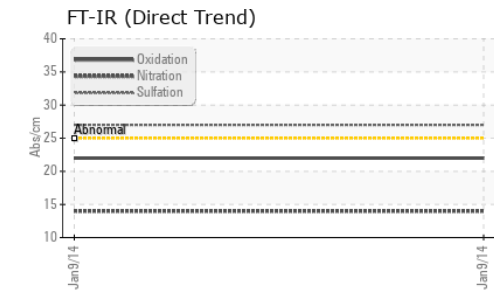
There is a trace of moisture present in the oil.

Silicon	ppm	ASTM D5185m	>30	22	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water	%	ASTM D6304	>0.1	▲ 0.163	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 1630	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0	---	---
Nitration	Abs/cm	*ASTM D7624		14.	---	---
Sulfation	Abs/.1mm	*ASTM D7415		27.	---	---
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	>0.1	NEG	---	---

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>400	14	---	---
Boron	ppm	ASTM D5185m		25	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		67	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		581	---	---
Calcium	ppm	ASTM D5185m	4200	1154	---	---
Phosphorus	ppm	ASTM D5185m	800	644	---	---
Zinc	ppm	ASTM D5185m	800	802	---	---
Sulfur	ppm	ASTM D5185m		1802	---	---
Oxidation	Abs/.1mm	*ASTM D7414		22.	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	4.89	---	---
Visc @ 100°C	cSt	ASTM D445	8.5	10.3	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR03427651 **Received** : 10 Jan 2014  
**Lab Number** : 03427651 **Tested** : 14 Jan 2014  
**Unique Number** : 6495452 **Diagnosed** : 14 Jan 2014 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KF )

**CCS CONSTRUCTORS**  
 138 MUNSON AVE  
 MORRISVILLE, VT  
 US 05661  
 Contact: SCOTT BURRELL

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)

T:  
F: