



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
NEW FLAT PRESS ASSET #23155

Component
Hydraulic System

Fluid
TRC HYDRAULIC OIL ISO 32- SAE10W (--- GAL)

RECOMMENDATION

We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02630904	---	---
Sample Date		Client Info		07 May 2010	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

Light concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m		1	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m		<1	---	---
Lead	ppm	ASTM D5185m		3	---	---
Copper	ppm	ASTM D5185m		5	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	▲ LIGHT	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

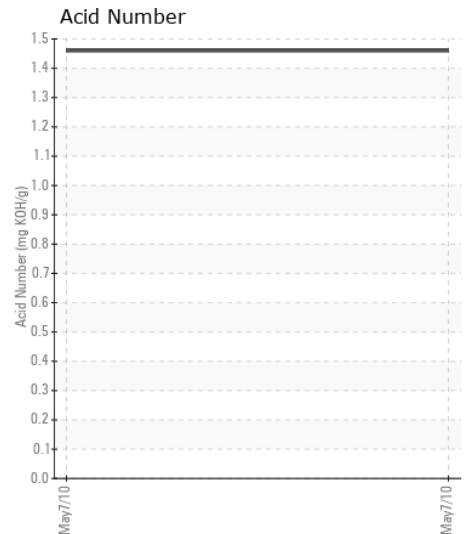
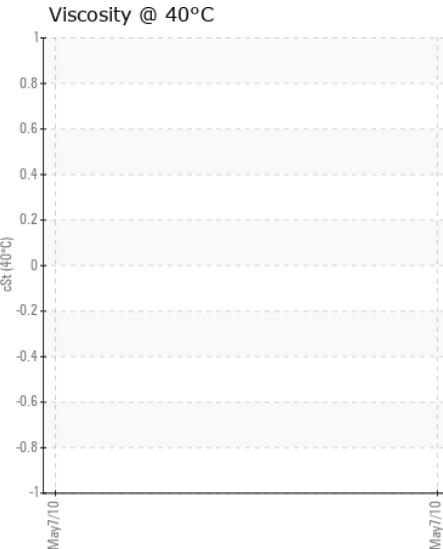
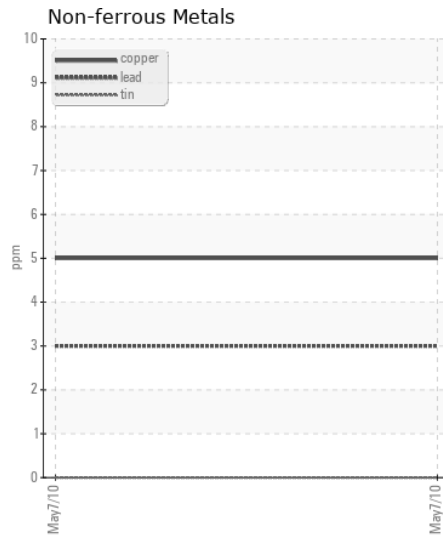
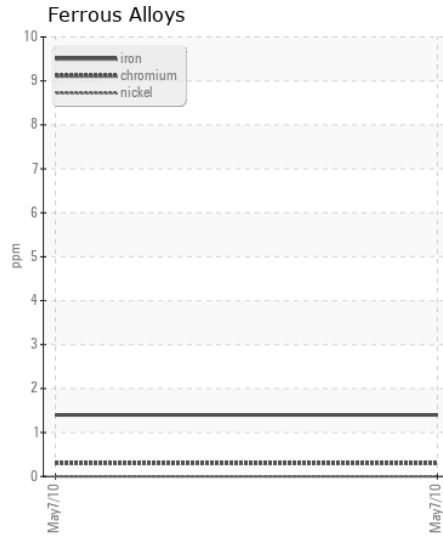
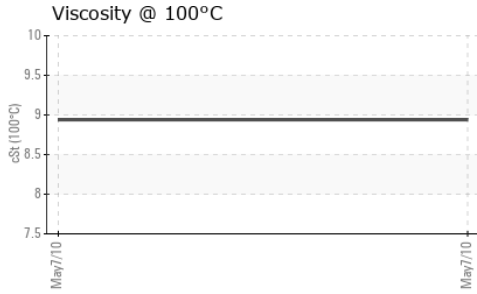
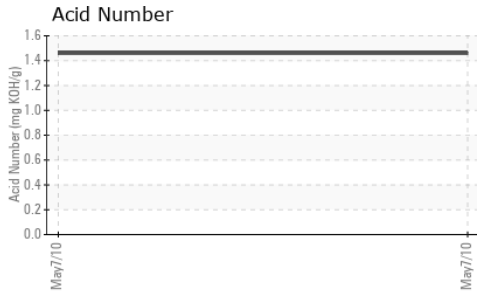
High concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m		3	---	---
Potassium	ppm	ASTM D5185m		2	---	---
Water		WC Method		NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ HEAVY	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual		NEG	---	---

FLUID CONDITION

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		5	---	---
Calcium	ppm	ASTM D5185m		222	---	---
Phosphorus	ppm	ASTM D5185m		738	---	---
Zinc	ppm	ASTM D5185m		925	---	---
Sulfur	ppm	ASTM D5185m		6527	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.46	---	---
Visc @ 100°C	cSt	ASTM D445		8.94	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR02630904 **Received** : 13 May 2010
Lab Number : 02630904 **Tested** : 14 May 2010
Unique Number : 5195854 **Diagnosed** : 14 May 2010 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: Bottom, KV100)

MERILLAT IND
 P.O. BOX 259
 ATKINS, VA
 US 24311
 Contact: MAURA HARVEY

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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F: