



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
MACK 55 1ST COMPARTMENT

Component
Hydraulic System

Fluid
TRC HYDRAULIC OIL ISO 32- SAE10W (60 GAL)

RECOMMENDATION

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		TR01626267	---	---
Sample Date		Client Info		18 Mar 2006	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		5	---	---
Filter Age	hrs	Client Info		5	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		8	---	---
Chromium	ppm	ASTM D5185m		<1	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		<1	---	---
Lead	ppm	ASTM D5185m		2	---	---
Copper	ppm	ASTM D5185m		5	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

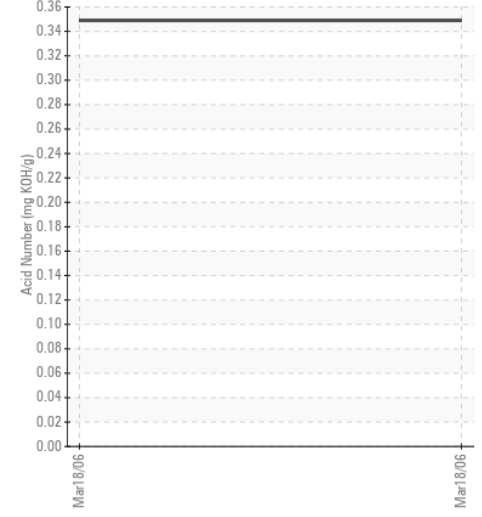
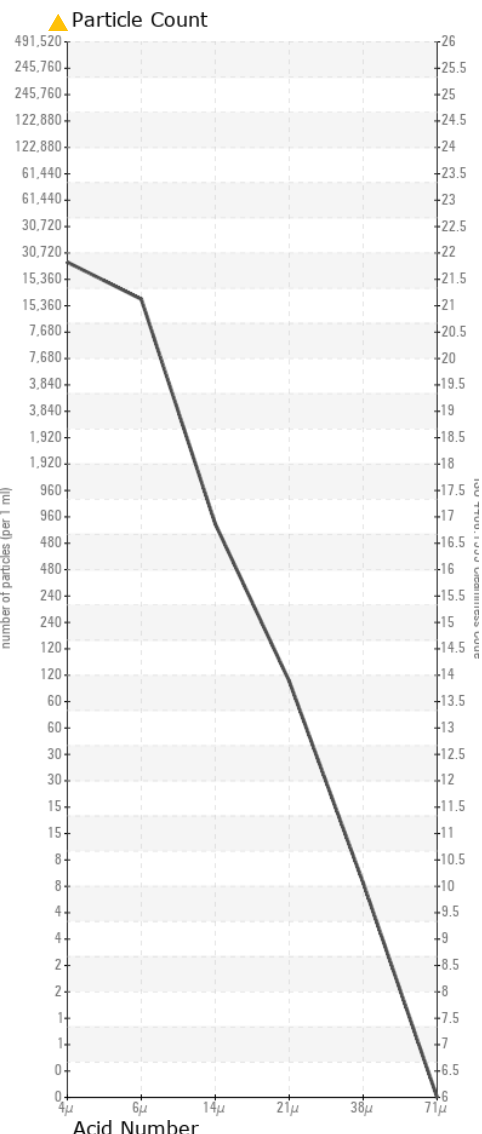
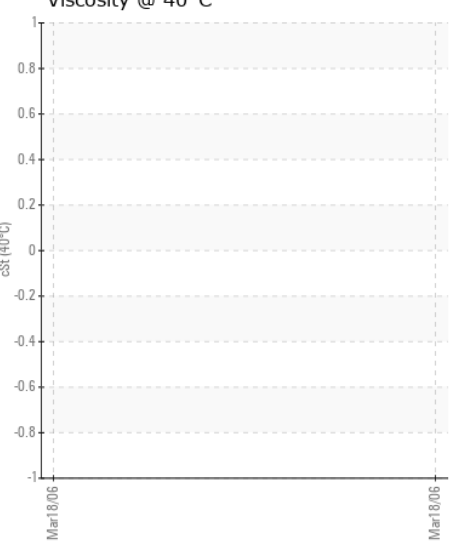
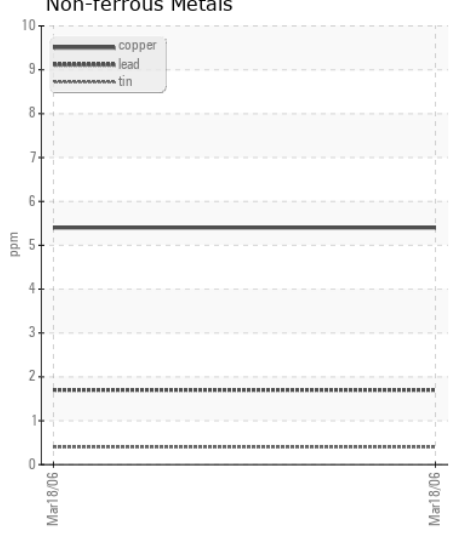
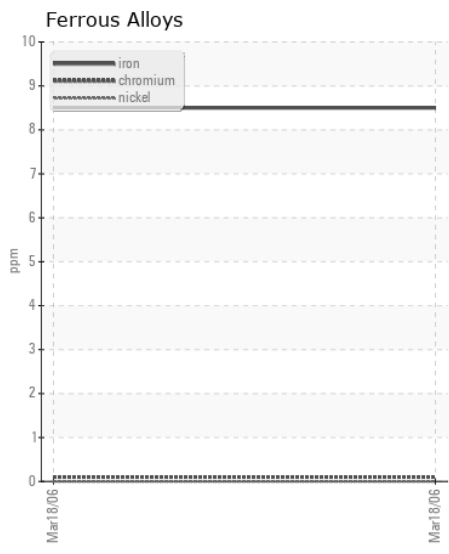
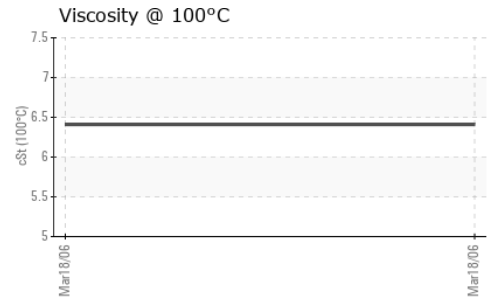
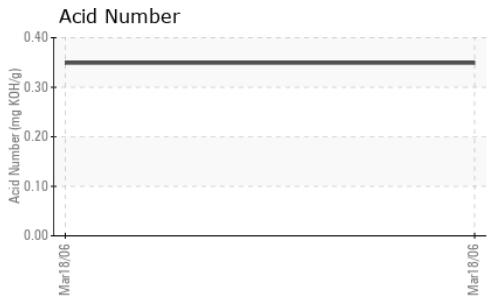
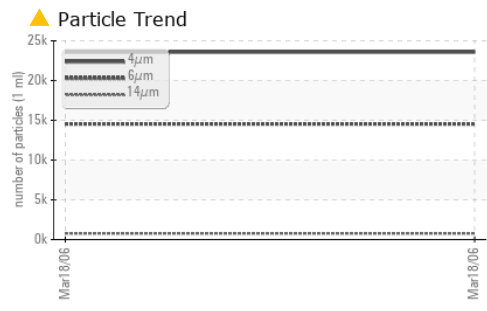
There is a high amount of particulates (5 to 50 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m		2	---	---
Potassium	ppm	ASTM D5185m		0	---	---
Water		WC Method		NEG	---	---
Particles >4µm		ASTM D7647		23583	---	---
Particles >6µm		ASTM D7647		▲ 14539	---	---
Particles >14µm		ASTM D7647		▲ 768	---	---
Particles >21µm		ASTM D7647		▲ 98	---	---
Particles >38µm		ASTM D7647		7	---	---
Particles >71µm		ASTM D7647		0	---	---
Oil Cleanliness		ISO 4406 (c)		▲ 22/21/17	---	---
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		NEG	---	---

FLUID CONDITION

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m		2	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		10	---	---
Calcium	ppm	ASTM D5185m		53	---	---
Phosphorus	ppm	ASTM D5185m		218	---	---
Zinc	ppm	ASTM D5185m		282	---	---
Sulfur	ppm	ASTM D5185m		1340	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.349	---	---
Visc @ 100°C	cSt	ASTM D445		6.41	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR01626267 **Received** : 22 Mar 2006
Lab Number : 01626267 **Tested** : 24 Mar 2006
Unique Number : 3561256 **Diagnosed** : 24 Mar 2006 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KV100, VI)

RUDELL REPAIR & TOWING
 65737 RED ARROW HWY.
 HARTFORD, MI
 US 49057
 Contact: BOB MCCALL

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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