



OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



Machine Id
ROYCO 717 BATCH #6474
 Component
New (Unused) Oil
 Fluid
{not provided} (55 GAL)

DIAGNOSIS

Recommendation

We were unable to perform a particle count due to a high concentration of particles present in this sample. This is a baseline read-out on the submitted sample.

Wear

Moderate concentration of visible metal present.

Contamination

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

Fluid Condition

The viscosity index is 355.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC02010137	---	---
Sample Date	Client Info		14 Aug 2007	---	---
Machine Age	cyc	Client Info	0	---	---
Oil Age	cyc	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	2	---	---
Chromium	ppm	ASTM D5185m	<1	---	---
Nickel	ppm	ASTM D5185m	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m	<1	---	---
Lead	ppm	ASTM D5185m	0	---	---
Copper	ppm	ASTM D5185m	<1	---	---
Tin	ppm	ASTM D5185m	0	---	---
Antimony	ppm	ASTM D5185m	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	<1	---	---
Manganese	ppm	ASTM D5185m	0	---	---
Magnesium	ppm	ASTM D5185m	<1	---	---
Calcium	ppm	ASTM D5185m	1	---	---
Phosphorus	ppm	ASTM D5185m	576	---	---
Zinc	ppm	ASTM D5185m	6	---	---
Sulfur	ppm	ASTM D5185m	291	---	---

CONTAMINANTS

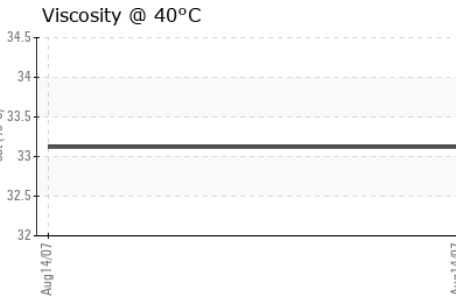
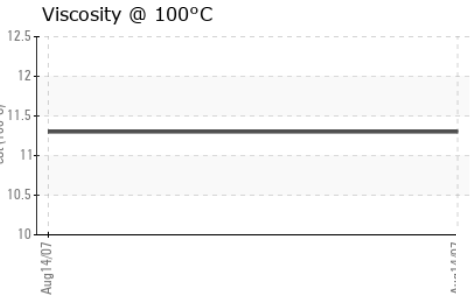
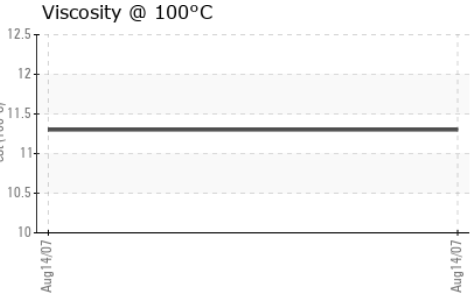
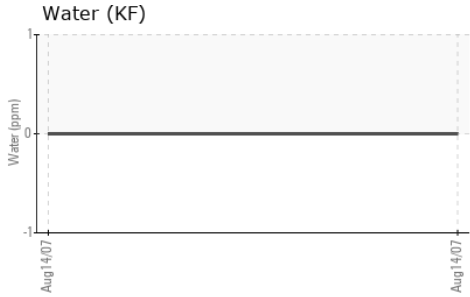
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	3	---	---
Sodium	ppm	ASTM D5185m	2	---	---
Potassium	ppm	ASTM D5185m	2	---	---
Water	%	ASTM D6304	0.010	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.139	---	---



OIL ANALYSIS REPORT

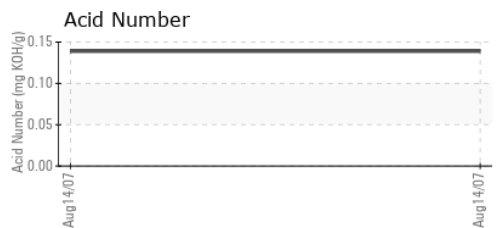
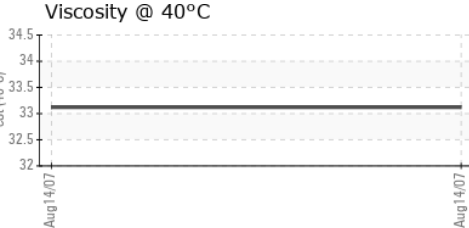
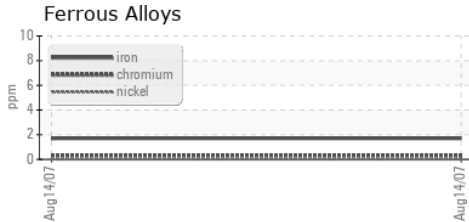


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	33.12	---	---
Visc @ 100°C	cSt	ASTM D445	11.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270	355	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC02010137 **Received** : 14 Aug 2007
Lab Number : 02010137 **Tested** : 16 Aug 2007
Unique Number : 4188890 **Diagnosed** : 16 Aug 2007 - Doug Bogart
Test Package : IND 2 (Additional Tests: Bottom, KF, KV100, PrtCount, VI)

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)