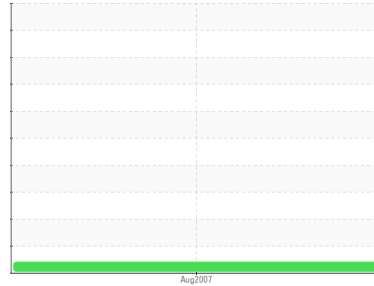




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
00034 PANCAKE PUMP
 Component
Hydraulic System
 Fluid
ROYAL ROYCO 717 (107 GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. NAS 1638 class 8.

Fluid Condition

The condition of oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC02010148	---	---
Sample Date	Client Info	14 Aug 2007	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	<1	---
Chromium	ppm	ASTM D5185m	0	---
Nickel	ppm	ASTM D5185m	<1	---
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	<1	---
Molybdenum	ppm	ASTM D5185m	0	---
Manganese	ppm	ASTM D5185m	0	---
Magnesium	ppm	ASTM D5185m	<1	---
Calcium	ppm	ASTM D5185m	<1	---
Phosphorus	ppm	ASTM D5185m	736	---
Zinc	ppm	ASTM D5185m	<1	---
Sulfur	ppm	ASTM D5185m	157	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	▲ 34	---
Sodium	ppm	ASTM D5185m	2	---
Potassium	ppm	ASTM D5185m	0	---
Water	%	ASTM D6304	0.008	---

FLUID CLEANLINESS

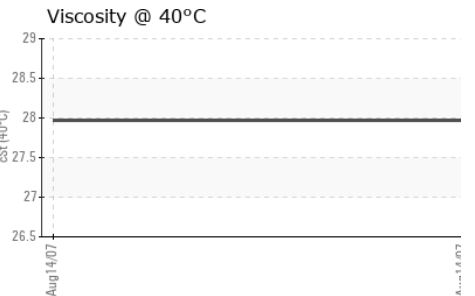
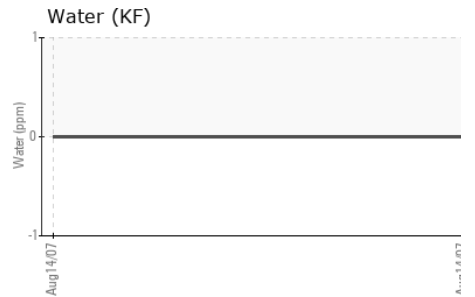
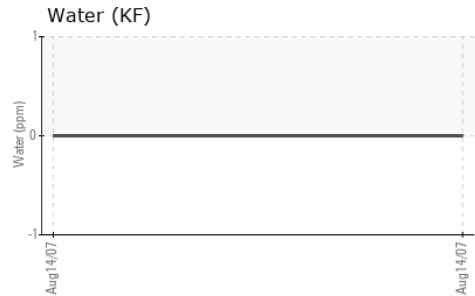
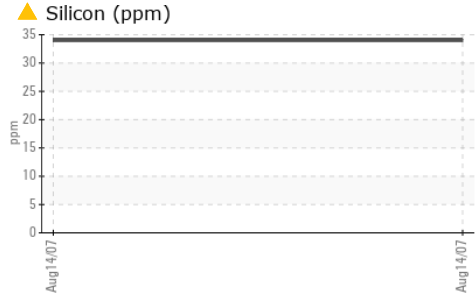
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	12928	---	---
Particles >6µm	ASTM D7647	▲ 4537	---	---
Particles >14µm	ASTM D7647	53	---	---
Particles >21µm	ASTM D7647	13	---	---
Particles >38µm	ASTM D7647	2	---	---
Particles >71µm	ASTM D7647	0	---	---
Oil Cleanliness	ISO 4406 (c)	▲ 21/19/13	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.118	---



OIL ANALYSIS REPORT



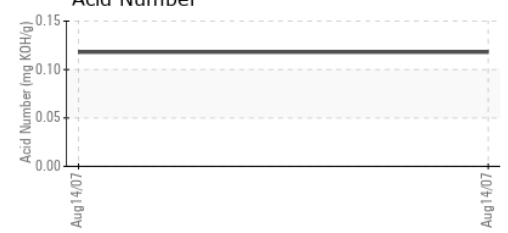
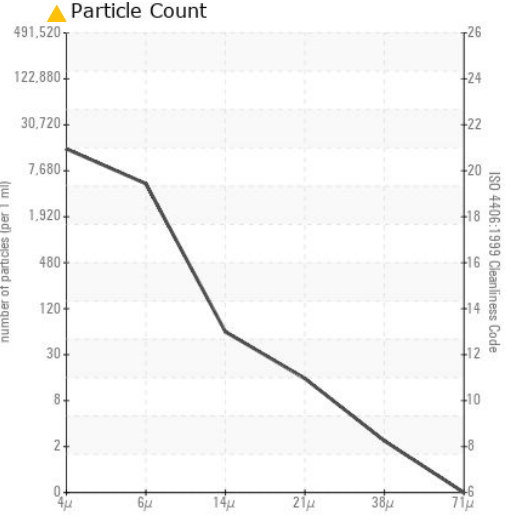
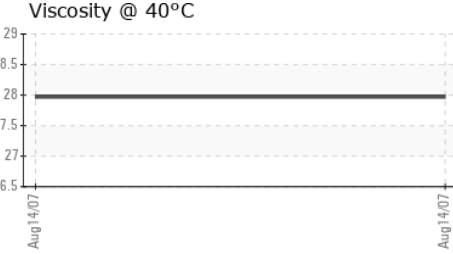
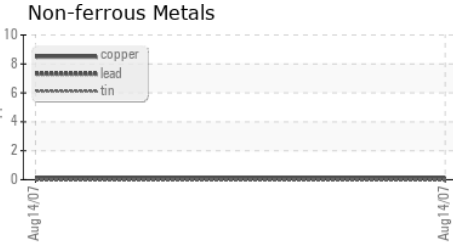
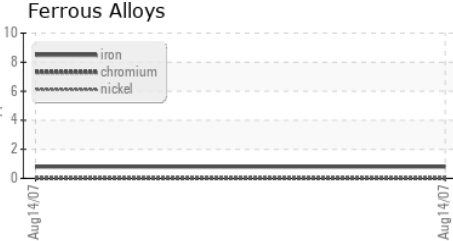
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	27.97	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC02010148 **Received** : 14 Aug 2007
Lab Number : 02010148 **Tested** : 15 Aug 2007
Unique Number : 4188901 **Diagnosed** : 16 Aug 2007 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF)

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Certificate L2367
 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)