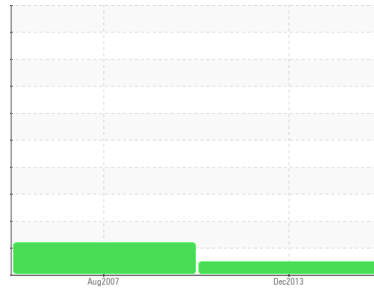




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**005**

Component

**Hydraulic System**

Fluid

**CASTROL BRAYCO 717 (74 GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the component.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WCI2218750</b>	WC02010154	---
Sample Date	Client Info	<b>05 Dec 2013</b>	14 Aug 2007	---
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>NORMAL</b>	ABNORMAL	---

### WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Antimony	ppm	ASTM D5185m		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

### ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	---
Calcium	ppm	ASTM D5185m		<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m		<b>856</b>	685	---
Zinc	ppm	ASTM D5185m		<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m		<b>77</b>	151	---

### CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	<b>5</b>	▲ 29	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water	%	ASTM D6304	>0.05	<b>0.015</b>	0.009	---
ppm Water	ppm	ASTM D6304	>500	<b>150</b>	---	---

### FLUID CLEANLINESS

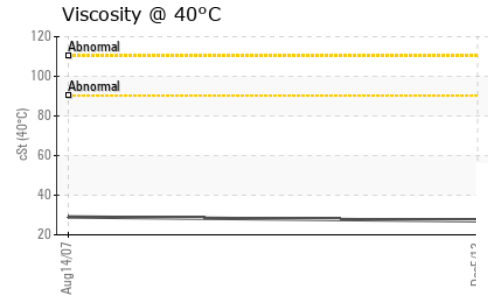
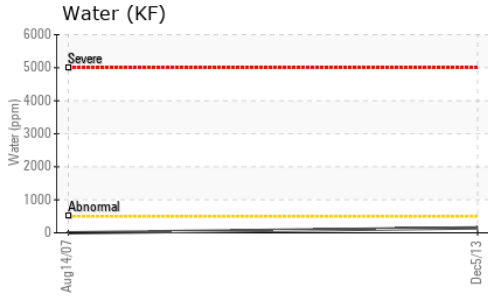
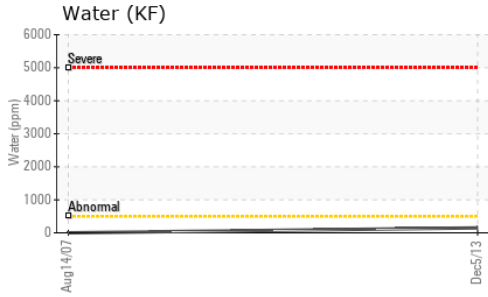
method	limit/base	current	history1	history2		
Particles >4µm	ASTM D7647	>5000		<b>115</b>	---	---
Particles >6µm	ASTM D7647	>1300		<b>62</b>	---	---
Particles >14µm	ASTM D7647	>160		<b>10</b>	---	---
Particles >21µm	ASTM D7647	>40		<b>3</b>	---	---
Particles >38µm	ASTM D7647	>10		<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3		<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14		<b>14/13/10</b>	---	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.052</b>	0.108	---



# OIL ANALYSIS REPORT



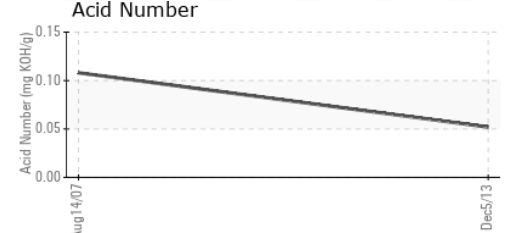
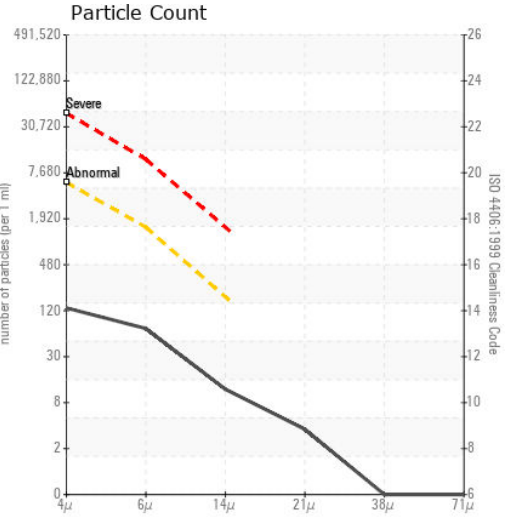
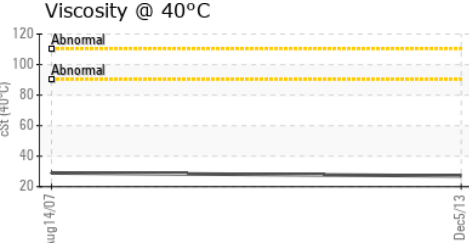
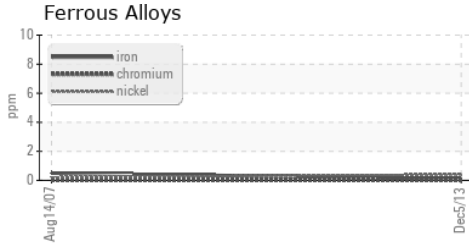
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>27.07</b>	29.03	---

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC12218750      **Received** : 05 Dec 2013  
**Lab Number** : 03409235      **Tested** : 06 Dec 2013  
**Unique Number** : 6462017      **Diagnosed** : 06 Dec 2013 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**BAE SYSTEMS**  
 163 ROCHESTER DR  
 LOUISVILLE, KY  
 US 40214  
 Contact: KEN MAHONEY  
 ken.mahoney@baesystems.com  
 T: (502)364-6439  
 F: (502)364-5973

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)