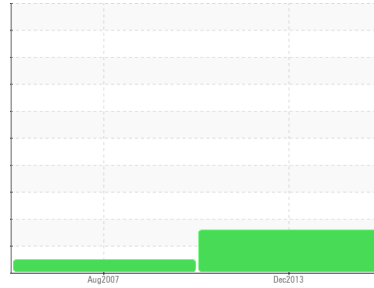




# OIL ANALYSIS REPORT

## Sample Rating Trend



DIRT



Machine Id

**044634-B**

Component

**Hydraulic System**

Fluid

**CASTROL BRAYCO 717 (480 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

Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system is acceptable.

#### 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>WCI2218742</b>	WC02010147	---
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>ABNORMAL</b>	NORMAL	---

### WEAR METALS

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

### ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		<b>0</b>	<1	---
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>	<1	---
Calcium	ppm	ASTM D5185m		<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m		<b>866</b>	759	---
Zinc	ppm	ASTM D5185m		<b>0</b>	2	---
Sulfur	ppm	ASTM D5185m		<b>87</b>	163	---

### CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	<b>▲ 22</b>	19	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Water	%	ASTM D6304	>0.05	<b>0.017</b>	0.008	---
ppm Water	ppm	ASTM D6304	>500	<b>170</b>	---	---

### FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	<b>153</b>	1269	---
Particles >6µm	ASTM D7647	>1300	<b>83</b>	691	---
Particles >14µm	ASTM D7647	>160	<b>14</b>	117	---
Particles >21µm	ASTM D7647	>40	<b>4</b>	39	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	6	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>14/14/11</b>	17/17/14	---

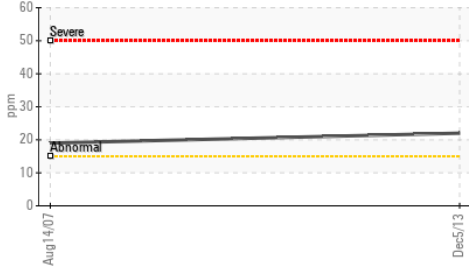
### FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.208</b>	0.118	---

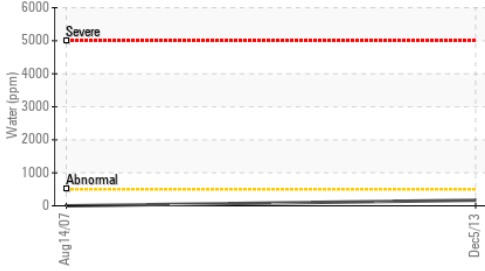


# OIL ANALYSIS REPORT

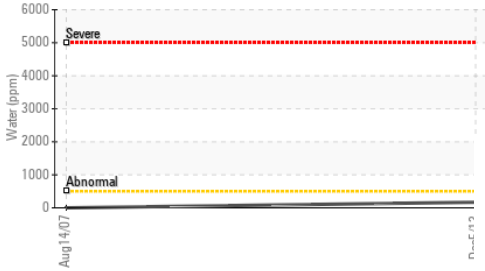
▲ Silicon (ppm)



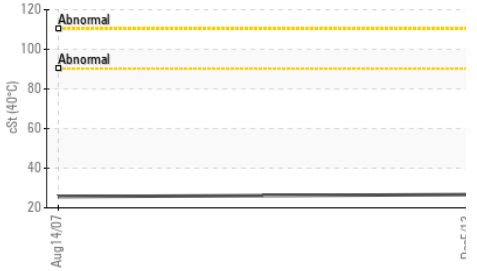
Water (KF)



Water (KF)



Viscosity @ 40°C



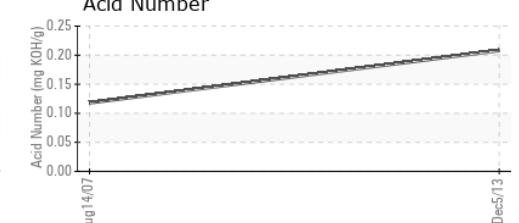
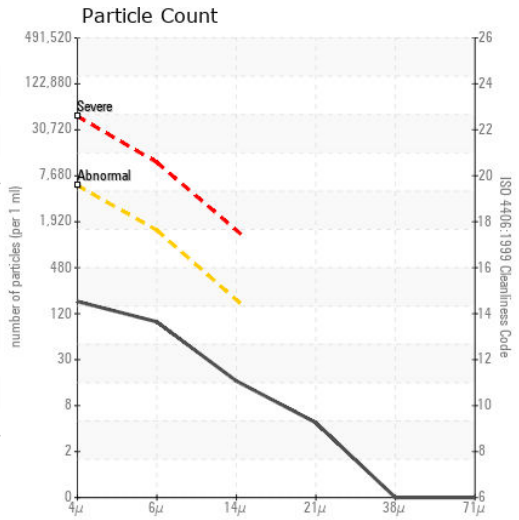
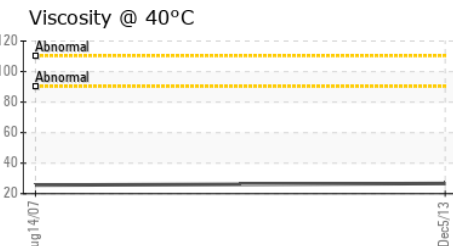
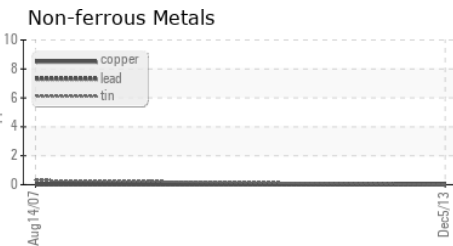
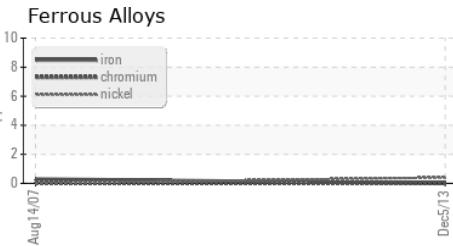
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	26.7	25.65	---

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. : WC12218742 Received : 05 Dec 2013  
 Lab Number : 03409230 Tested : 06 Dec 2013  
 Unique Number : 6462012 Diagnosed : 06 Dec 2013 - Don Baldrige  
 Test Package : IND 2 ( Additional Tests: KF )

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)

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