



# OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL

Machine Id  
**005**  
 Component  
**Hydraulic System**  
 Fluid  
**ROYAL ROYCO 717 (74 GAL)**



## DIAGNOSIS

### Recommendation

We were unable to perform a particle count due to metal particles present in this sample. We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

Light concentration of visible metal present. All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal.

### Fluid Condition

The condition of oil is suitable for further service.

## SAMPLE INFORMATION

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

## WEAR METALS

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

## ADDITIVES

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

## CONTAMINANTS

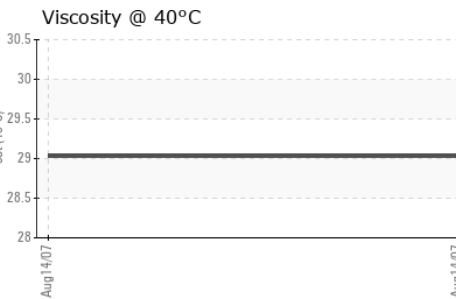
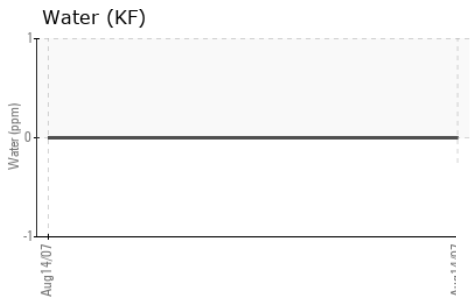
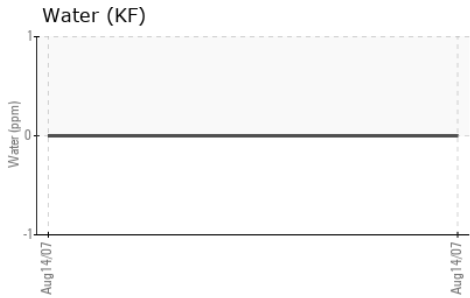
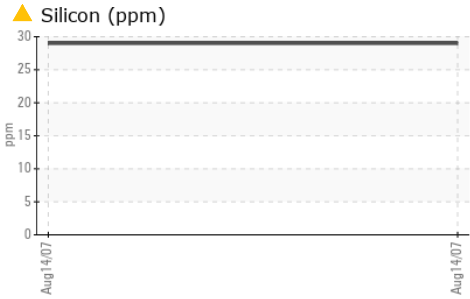
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<b>▲ 29</b>	---	---
Sodium	ppm	ASTM D5185m	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	<b>0</b>	---	---
Water	%	ASTM D6304	<b>0.009</b>	---	---

## FLUID DEGRADATION

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



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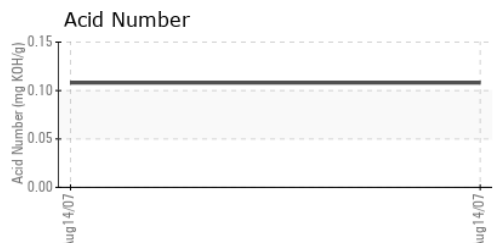
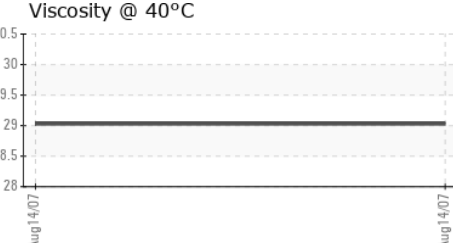
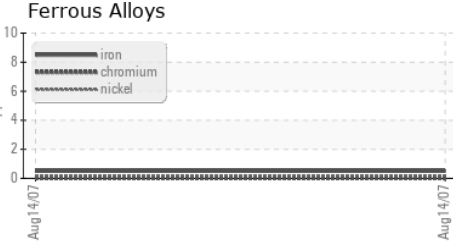
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	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.** : WC02010154      **Received** : 14 Aug 2007  
**Lab Number** : 02010154      **Tested** : 16 Aug 2007  
**Unique Number** : 4188907      **Diagnosed** : 16 Aug 2007 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: Bottom, KF )

**BAE SYSTEMS**  
 163 ROCHESTER DR  
 LOUISVILLE, KY  
 US 40214

Contact: KEN MAHONEY  
 ken.mahoney@baesystems.com

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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