



# OIL ANALYSIS REPORT

Sample Rating Trend

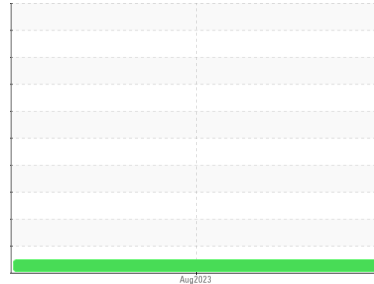
**NORMAL**



## Machine Id **CART AFTER FLUSH**

Component  
**Hydraulic System**

Fluid  
**ROYAL ROYCO 756 (7 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 oil. The system and fluid cleanliness 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>WC0848792</b>	---	---
Sample Date	Client Info	<b>21 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

### WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Chromium ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Nickel ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Lead ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Copper ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Tin ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Antimony ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium ppm ASTM D5185(m)		<b>0</b>	---	---

### ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Barium ppm ASTM D5185(m)	1	<b>0</b>	---	---
Molybdenum ppm ASTM D5185(m)		<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Calcium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185(m)	400	<b>482</b>	---	---
Zinc ppm ASTM D5185(m)		<b>2</b>	---	---
Sulfur ppm ASTM D5185(m)	0	<b>87</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Sodium ppm ASTM D5185(m)		<b>0</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>0</b>	---	---

### FLUID CLEANLINESS

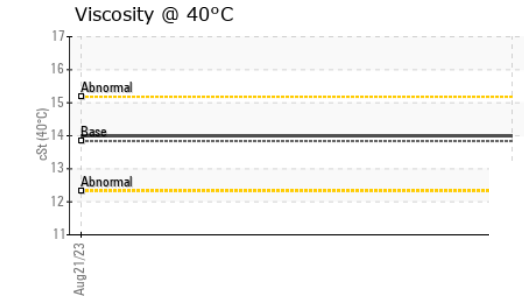
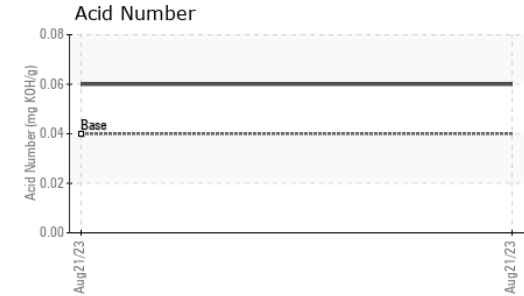
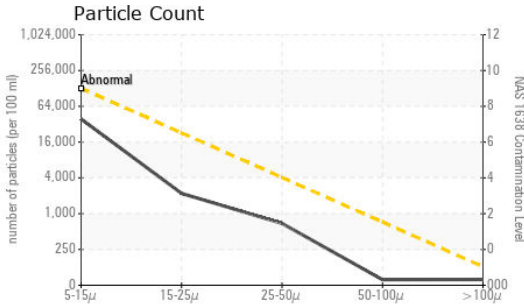
method	limit/base	current	history1	history2
Particles 5-15µm count NAS 1638	>128000	<b>39164</b>	---	---
Particles 15-25µm count NAS 1638	>22800	<b>2193</b>	---	---
Particles 25-50µm count NAS 1638	>4050	<b>686</b>	---	---
Particles 50-100µm count NAS 1638	>720	<b>39</b>	---	---
Particles >100µm count NAS 1638	>128	<b>40</b>	---	---
NAS 1638 Class NAS 1638	>9	<b>8</b>	---	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.04	<b>0.06</b>	---	---



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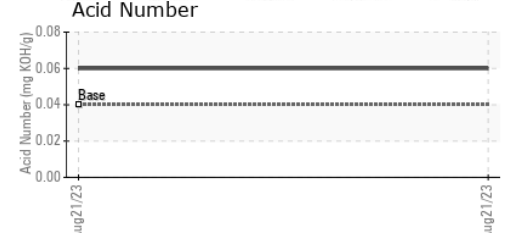
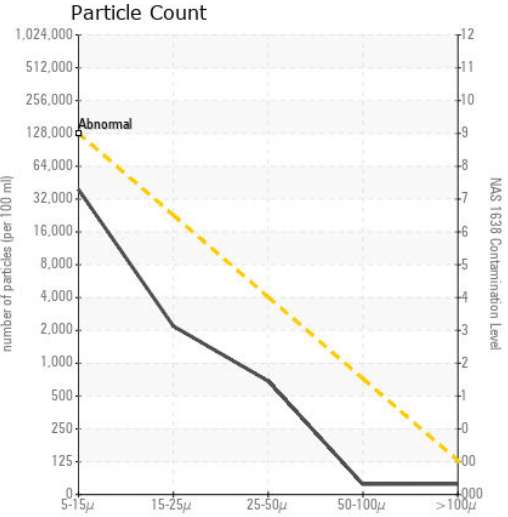
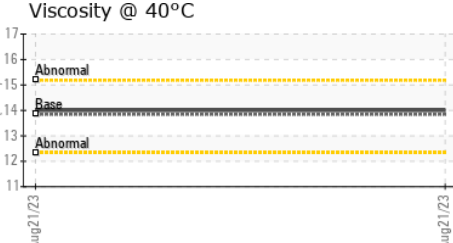
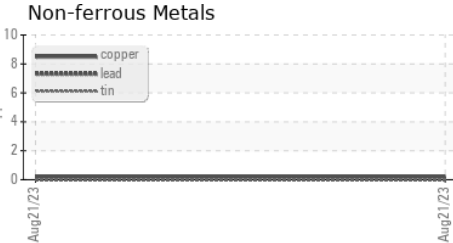
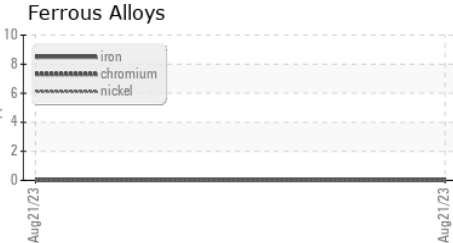
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	13.84	<b>14.0</b>	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0848792 **Received** : 24 Aug 2023  
**Lab Number** : 02578096 **Diagnosed** : 25 Aug 2023  
**Unique Number** : 5631156 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: PrtCountNAS, TAN Man )

**FIG AIR Inc.**  
 97 Airport Road  
 Seguin, ON  
 CA P2A 2W8  
 Contact: Scott Jacklin  
 SJacklin@figairinc.com  
 T: (705)774-3270  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.