



# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Machine Id  
**23-M-04-2515**

Component  
**Hydraulic System**

Fluid  
**AW HYDRAULIC OIL ISO 68 (--- GAL)**



## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0812538</b>	---	---
Sample Date	Client Info	<b>04 Oct 2023</b>	---	---
Machine Age	hrs Client Info	<b>94</b>	---	---
Oil Age	hrs Client Info	<b>94</b>	---	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	<b>4</b>	---	---
Chromium ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Nickel ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Aluminum ppm ASTM D5185(m)	>20	<b>0</b>	---	---
Lead ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Copper ppm ASTM D5185(m)	>20	<b>3</b>	---	---
Tin ppm ASTM D5185(m)	>20	<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)	5	<b>&lt;1</b>	---	---
Barium ppm ASTM D5185(m)	5	<b>&lt;1</b>	---	---
Molybdenum ppm ASTM D5185(m)	5	<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)	25	<b>&lt;1</b>	---	---
Calcium ppm ASTM D5185(m)	200	<b>98</b>	---	---
Phosphorus ppm ASTM D5185(m)	300	<b>616</b>	---	---
Zinc ppm ASTM D5185(m)	370	<b>828</b>	---	---
Sulfur ppm ASTM D5185(m)	2500	<b>1507</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>&lt;1</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---

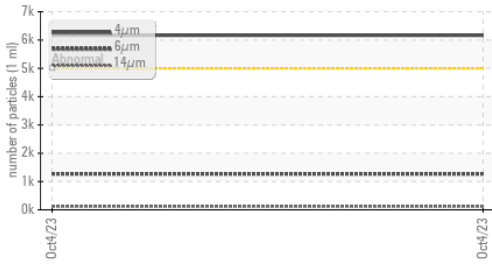
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>▲ 6164</b>	---	---
Particles >6µm ASTM D7647	>1300	<b>1268</b>	---	---
Particles >14µm ASTM D7647	>160	<b>120</b>	---	---
Particles >21µm ASTM D7647	>40	<b>28</b>	---	---
Particles >38µm ASTM D7647	>10	<b>2</b>	---	---
Particles >71µm ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>▲ 20/17/14</b>	---	---

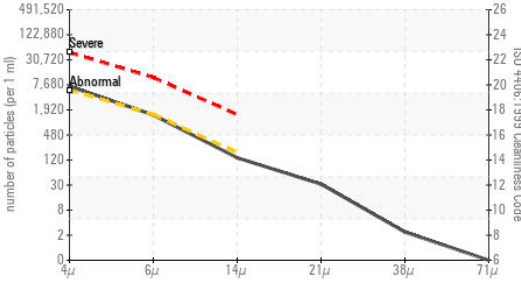


# OIL ANALYSIS REPORT

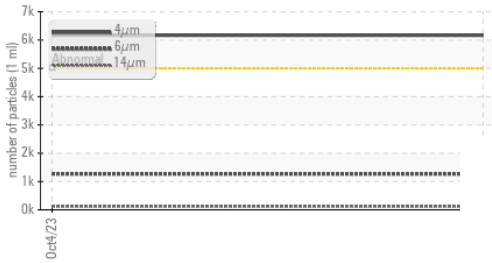
▲ Particle Trend



▲ Particle Count



▲ Particle Trend



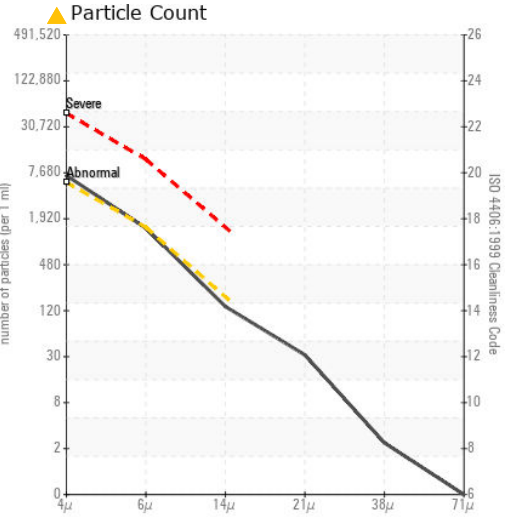
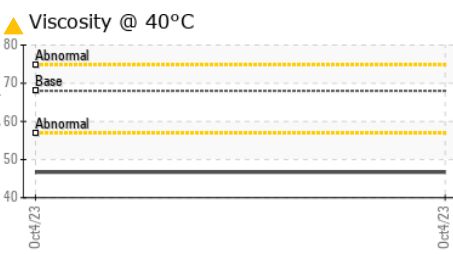
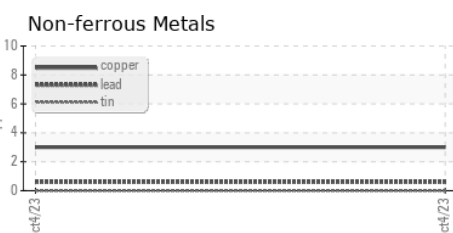
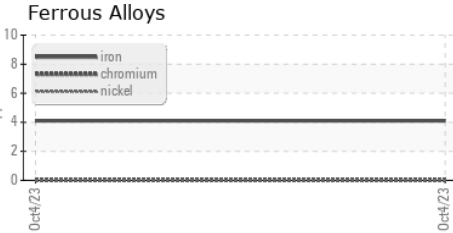
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	Visual*	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)	68	▲ 46.7	---

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.** : WC0812538 **Received** : 27 Oct 2023  
**Lab Number** : 02592422 **Diagnosed** : 30 Oct 2023  
**Unique Number** : 5669501 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2

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.

**RWF Industries**  
 873 Devonshire Ave.  
 Woodstock, ON  
 CA N4S 8Z4  
 Contact: Henry Schepers  
 henrys@rwfbron.com  
 T:  
 F: (519)421-0028