



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id

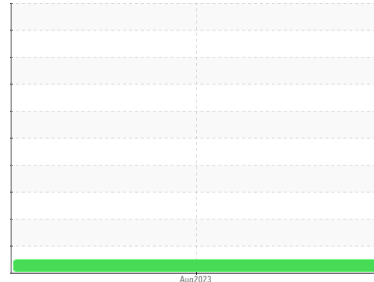
**2**

Component

**Hydraulic System**

Fluid

**MONARCH PREMIUM HYDRAULIC OIL AW R&O 32 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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>WC0813141</b>	---	---
Sample Date	Client Info		<b>15 Aug 2023</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>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>0</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)	>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)		<b>&lt;1</b>	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	---
Calcium	ppm	ASTM D5185(m)		<b>1</b>	---
Phosphorus	ppm	ASTM D5185(m)		<b>161</b>	---
Zinc	ppm	ASTM D5185(m)		<b>6</b>	---
Sulfur	ppm	ASTM D5185(m)		<b>649</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

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

## FLUID CLEANLINESS

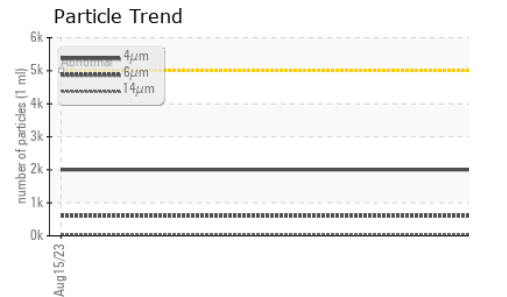
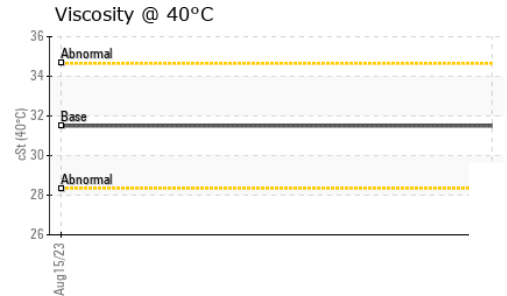
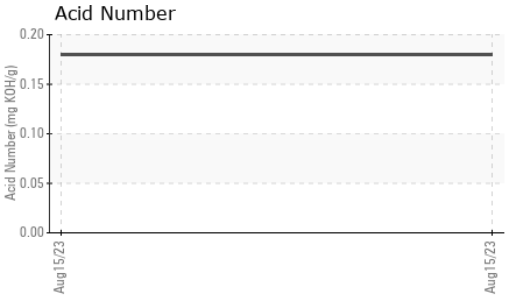
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>2002</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>602</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>44</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>11</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/16/13</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.18</b>	---	---



# OIL ANALYSIS REPORT



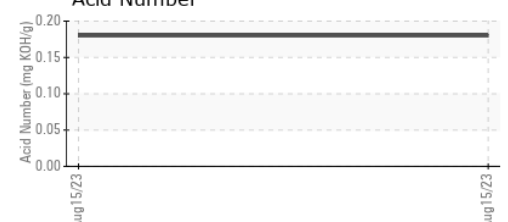
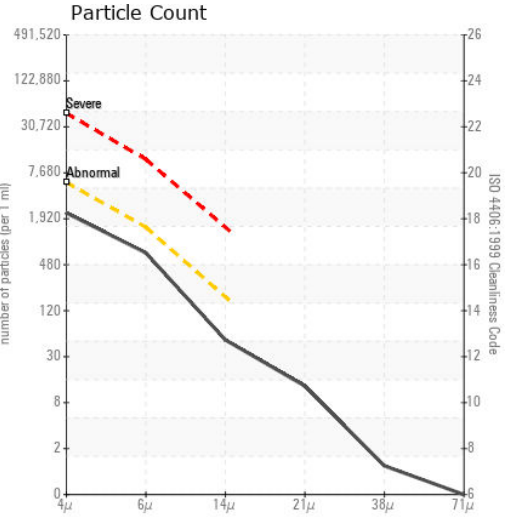
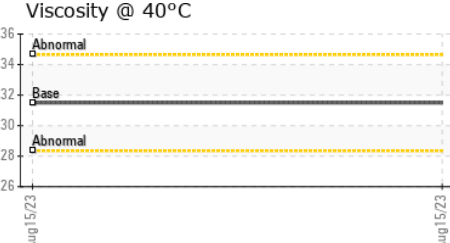
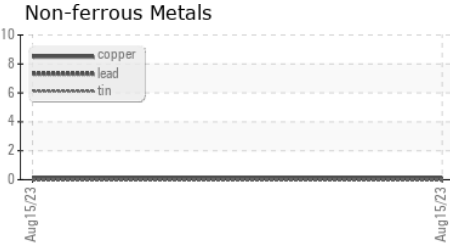
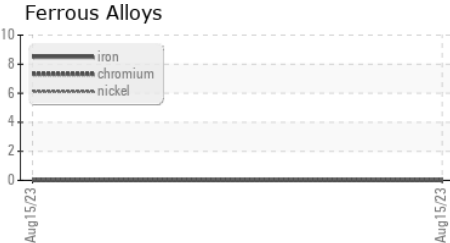
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
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 D7279(m)	31.5	31.5	---	---

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.** : WC0813141 **Received** : 18 Aug 2023  
**Lab Number** : 02576763 **Diagnosed** : 22 Aug 2023  
**Unique Number** : 5629823 **Diagnostician** : Wes Davis  
**Test Package** : IND 2

**AXIOM GROUP**  
 115 MARY ST  
 AURORA, ON  
 CA L4G 1G3  
 Contact: Pawel Perc

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.

T:  
F: