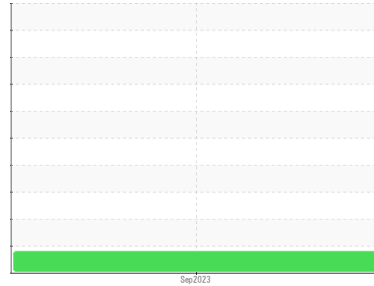




# PROBLEM SUMMARY

Sample Rating Trend



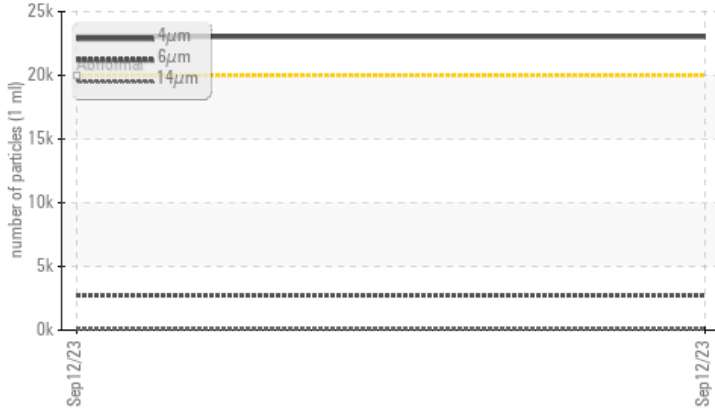
ISO



Machine Id  
**AF12-250-M82374 COOLING WHEEL 2 TURNING MOTOR 1**  
 Component  
**Gear Drive**  
 Fluid  
**MOBIL MOBILGEAR SHC 220 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status	ATTENTION	---	---
Particles >4µm	ASTM D7647 >20000 ▲ <b>23033</b>	---	---
Oil Cleanliness	ISO 4406 (c) >21/19/16 ▲ <b>22/19/13</b>	---	---

Customer Id: ARAGRAUS  
 Sample No.: WC0848203  
 Lab Number: 05963543  
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Wes Davis +1 905-569-8600 x223  
[wesd@wearcheck.ca](mailto:wesd@wearcheck.ca)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**AF12-250-M82374 COOLING WHEEL 2 TURNING MOTOR 1**  
 Component  
**Gear Drive**  
 Fluid  
**MOBIL MOBILGEAR SHC 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. 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

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

### 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>WC0848203</b>	---	---
Sample Date	Client Info		<b>12 Sep 2023</b>	---	---
Machine Age	mths Client Info		<b>60</b>	---	---
Oil Age	mths Client Info		<b>12</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>15</b>	---	---
Iron	ppm ASTM D5185m	>150	<b>1</b>	---	---
Chromium	ppm ASTM D5185m	>10	<b>0</b>	---	---
Nickel	ppm ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm ASTM D5185m		<b>0</b>	---	---
Silver	ppm ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>25	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m	>100	<b>0</b>	---	---
Copper	ppm ASTM D5185m	>50	<b>&lt;1</b>	---	---
Tin	ppm ASTM D5185m	>10	<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>&lt;1</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>0</b>	---	---
Manganese	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m		<b>0</b>	---	---
Calcium	ppm ASTM D5185m		<b>0</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>491</b>	---	---
Zinc	ppm ASTM D5185m		<b>0</b>	---	---
Sulfur	ppm ASTM D5185m		<b>4190</b>	---	---

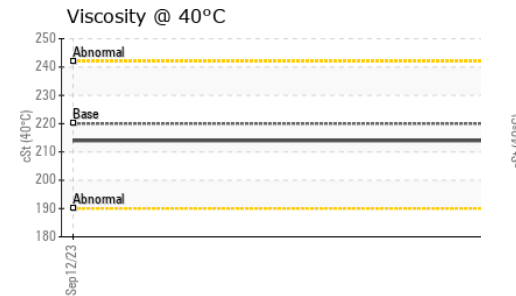
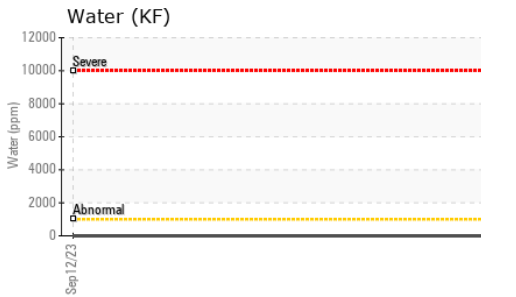
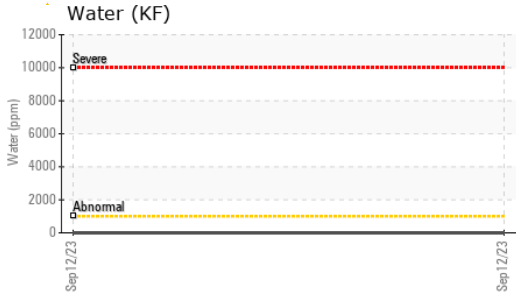
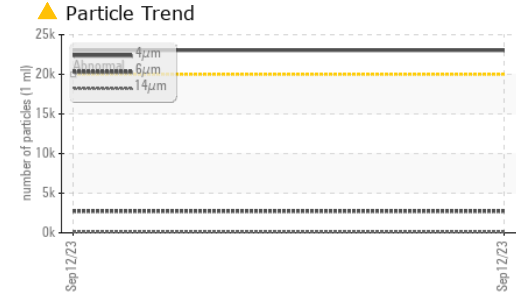
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>50	<b>16</b>	---	---
Sodium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>0</b>	---	---
Water	% ASTM D6304	>0.1	<b>0.00</b>	---	---
ppm Water	ppm ASTM D6304	>1000	<b>0.00</b>	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 23033</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>2736</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>79</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>20</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 22/19/13</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045		<b>0.84</b>	---	---



# OIL ANALYSIS REPORT



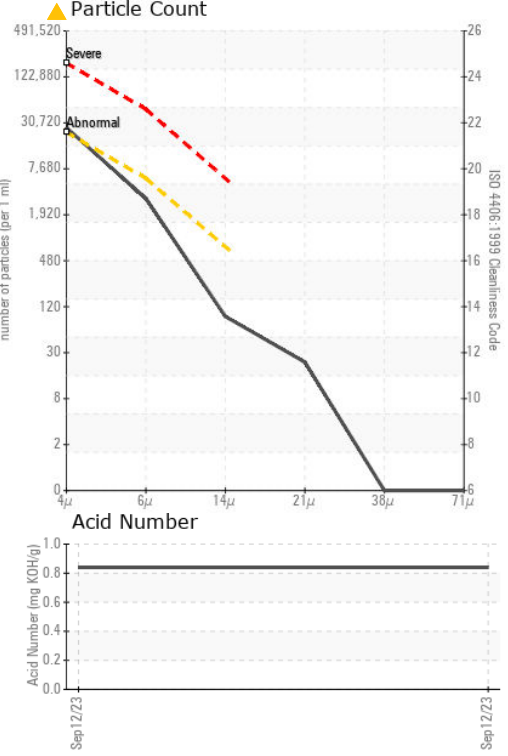
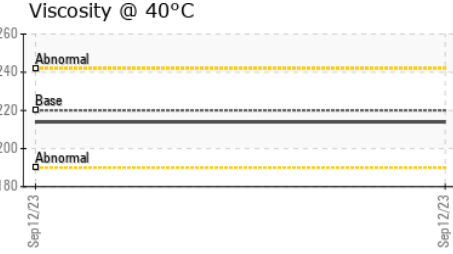
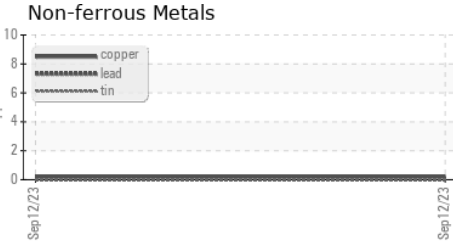
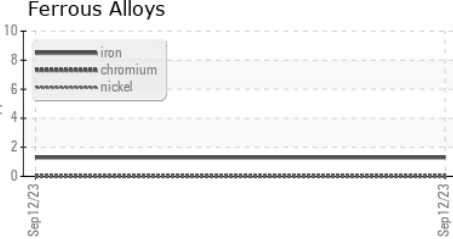
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	220	214	---	---

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 USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0848203 **Received** : 28 Sep 2023  
**Lab Number** : 05963543 **Diagnosed** : 29 Sep 2023  
**Unique Number** : 10670094 **Diagnostician** : Wes Davis  
**Test Package** : PLANT

**ARAUCO - GRAYLING**  
 5851 ARAUCO ROAD  
 GRAYLING, MI  
 US 49738  
 Contact: JOSEPH GREEN  
 joseph.green@arauco.com  
 T:  
 F:

Certificate L2367  
 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)