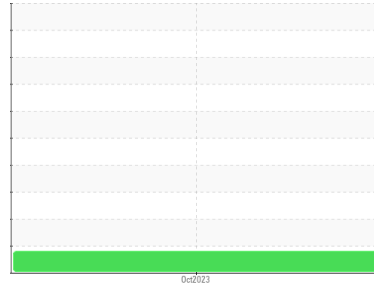




# PROBLEM SUMMARY

Sample Rating Trend



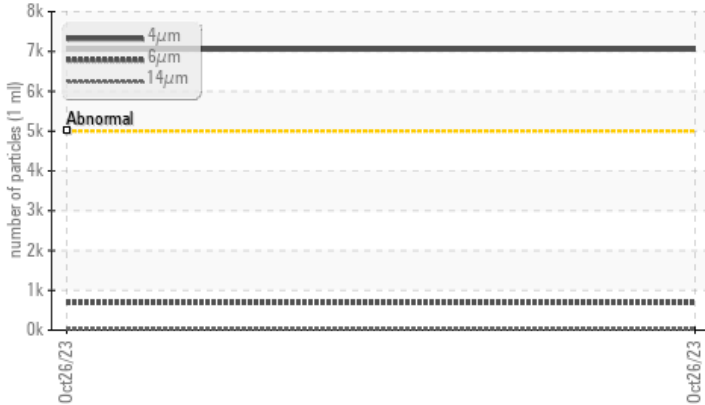
ISO



Machine Id  
**AF12-130-1315-2000 FLAKER 2 HYDRAULIC UNIT**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL DTE 10 EXCEL 46 (--- 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			<b>ATTENTION</b>	---	---
Particles >4µm	ASTM D7647	>5000	▲ <b>7050</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>20/17/12</b>	---	---

Customer Id: ARAGRAUS  
Sample No.: WC0824144  
Lab Number: 05996709  
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

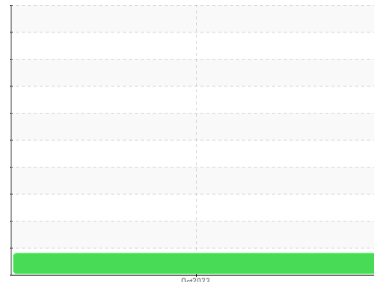
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**AF12-130-1315-2000 FLAKER 2 HYDRAULIC UNIT**

Component  
**Hydraulic System**

Fluid  
**MOBIL DTE 10 EXCEL 46 (--- 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>WC0824144</b>	---	---
Sample Date	Client Info		<b>26 Oct 2023</b>	---	---
Machine Age	mths Client Info		<b>66</b>	---	---
Oil Age	mths Client Info		<b>6</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>7</b>	---	---
Iron	ppm ASTM D5185m	>20	<b>3</b>	---	---
Chromium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	>20	<b>0</b>	---	---
Titanium	ppm ASTM D5185m		<b>0</b>	---	---
Silver	ppm ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m	>20	<b>3</b>	---	---
Tin	ppm ASTM D5185m	>20	<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>&lt;1</b>	---	---
Calcium	ppm ASTM D5185m		<b>85</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>383</b>	---	---
Zinc	ppm ASTM D5185m		<b>140</b>	---	---
Sulfur	ppm ASTM D5185m		<b>2769</b>	---	---

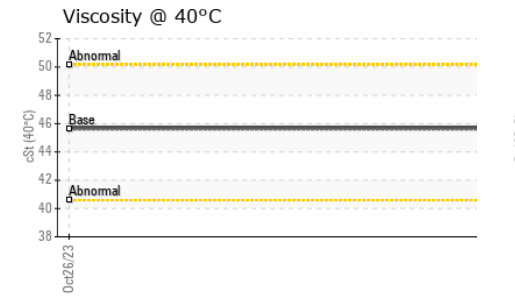
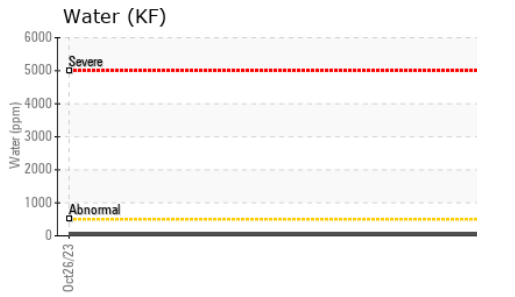
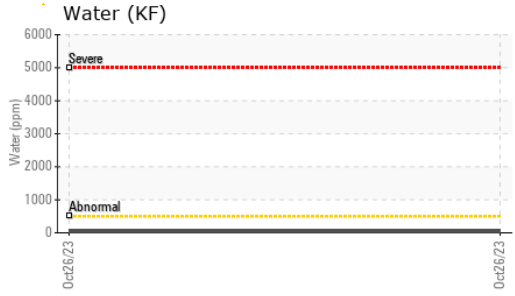
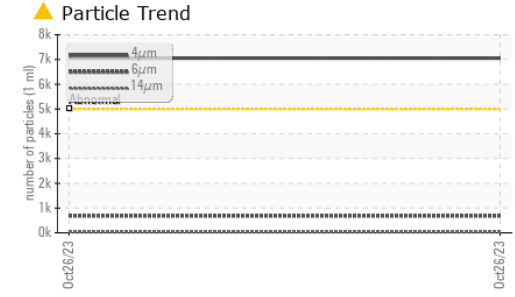
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>15	<b>6</b>	---	---
Sodium	ppm ASTM D5185m		<b>0</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>2</b>	---	---
Water	% ASTM D6304	>0.05	<b>0.004</b>	---	---
ppm Water	ppm ASTM D6304	>500	<b>42.1</b>	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 7050</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>686</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>31</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>8</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>▲ 20/17/12</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045		<b>0.13</b>	---	---



# OIL ANALYSIS REPORT



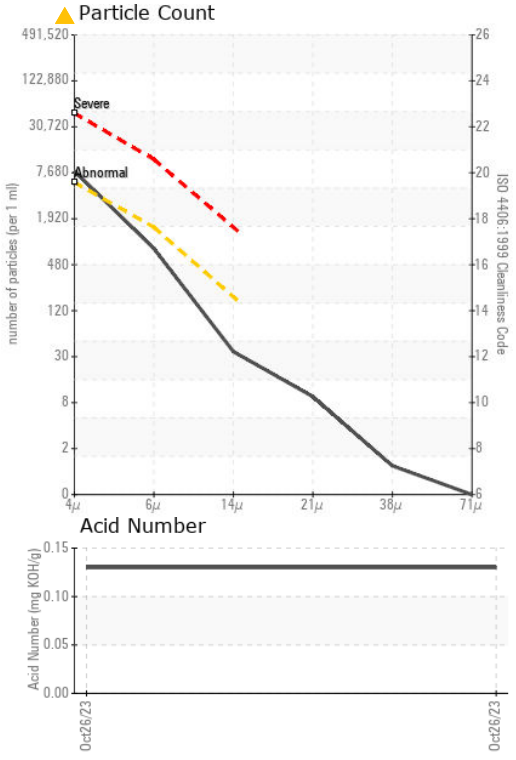
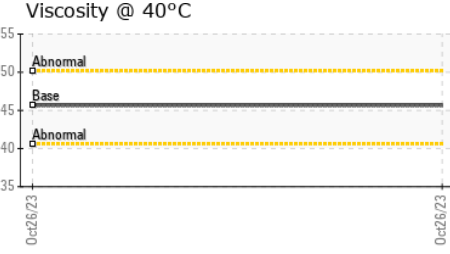
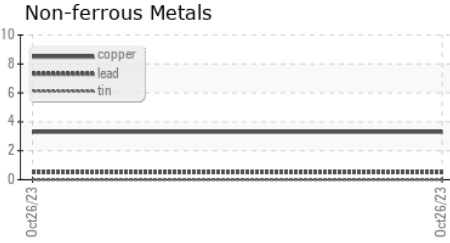
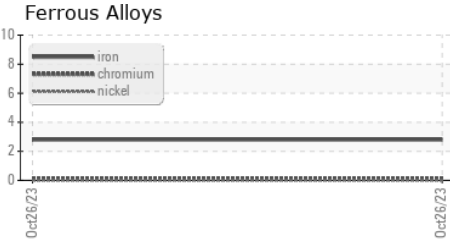
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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 D445	45.6	<b>45.7</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 USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0824144 **Received** : 02 Nov 2023  
**Lab Number** : 05996709 **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10725069 **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)