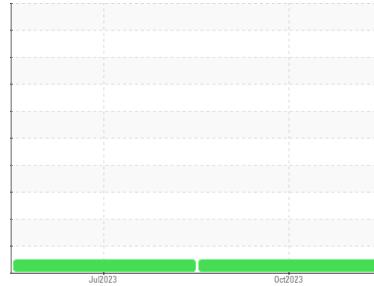




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**AF12-105-3350-0000 BARK HOG HYDRAULICS**

Component  
**Hydraulic System**

Fluid  
**MOBIL DTE 10 EXCEL 46 (--- 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 amount and size of particulates present in the system are 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>WC0848187</b>	WC0818988	---
Sample Date	Client Info		<b>25 Oct 2023</b>	10 Jul 2023	---
Machine Age	yrs	Client Info	<b>0</b>	0	---
Oil Age	yrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>14</b>	13	---
Iron	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	<b>6</b>	2	---
Calcium	ppm	ASTM D5185m	<b>77</b>	74	---
Phosphorus	ppm	ASTM D5185m	<b>395</b>	408	---
Zinc	ppm	ASTM D5185m	<b>71</b>	73	---
Sulfur	ppm	ASTM D5185m	<b>2935</b>	2823	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	---
Water	%	ASTM D6304 >0.05	<b>0.003</b>	0.004	---
ppm Water	ppm	ASTM D6304 >500	<b>32.7</b>	44.5	---

## FLUID CLEANLINESS

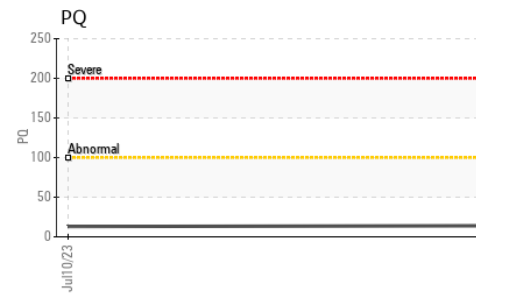
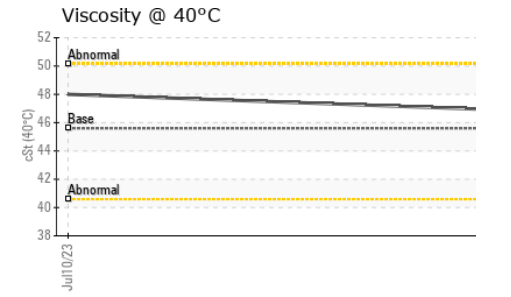
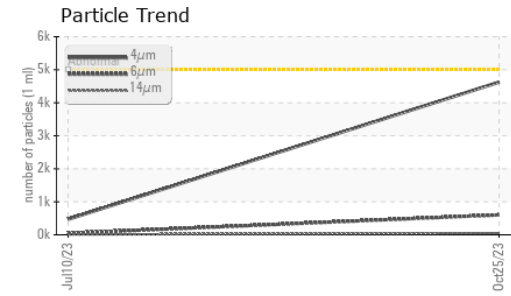
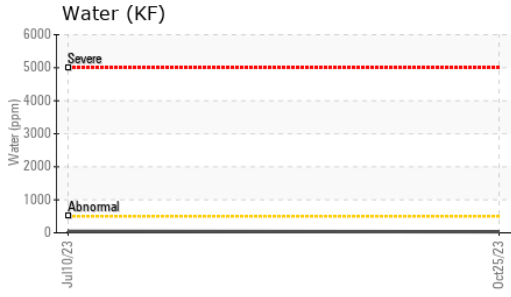
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>4625</b>	470	---
Particles >6µm	ASTM D7647	>1300	<b>603</b>	47	---
Particles >14µm	ASTM D7647	>160	<b>50</b>	9	---
Particles >21µm	ASTM D7647	>40	<b>19</b>	5	---
Particles >38µm	ASTM D7647	>10	<b>2</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>19/16/13</b>	16/13/10	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.14</b>	0.14	---



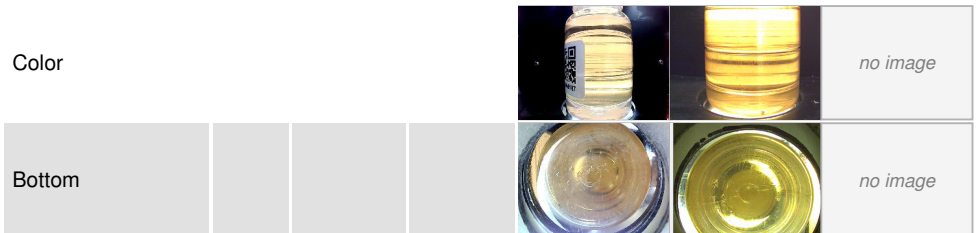
# OIL ANALYSIS REPORT



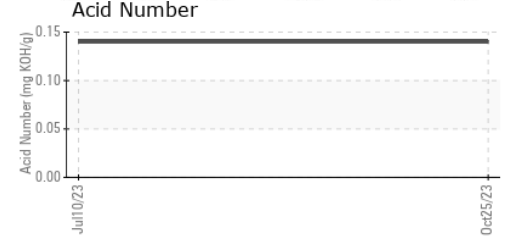
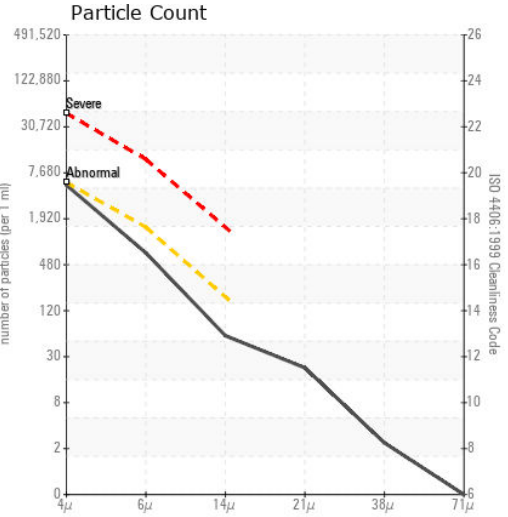
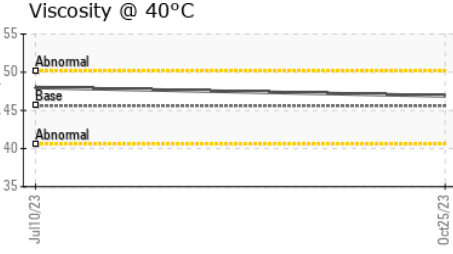
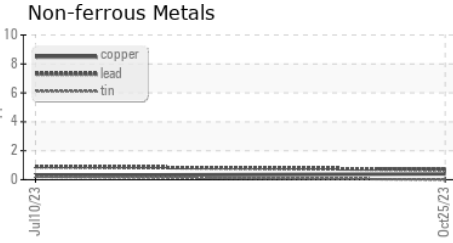
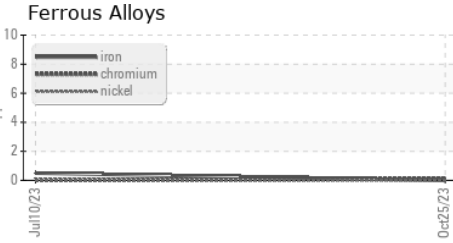
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	46.9	48.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0848187 **Received** : 02 Nov 2023  
**Lab Number** : 05996699 **Diagnosed** : 04 Nov 2023  
**Unique Number** : 10725059 **Diagnostician** : Don Baldrige  
**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)