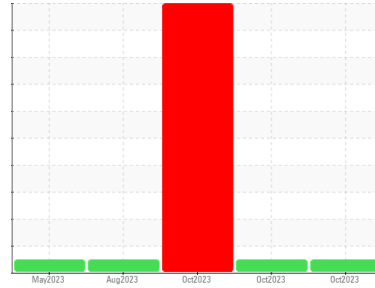




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Recycled Fiber**  
 Machine Id  
**RF Pulper Gearbox**

Component  
**Gearbox**  
 Fluid  
**MOBIL MOBILGEAR SHC 220 (150)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### 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>WC0776572</b>	WC0776571	WC0776570
Sample Date	Client Info			<b>27 Oct 2023</b>	12 Oct 2023	04 Oct 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Not Changed</b>	Filtered	N/A
Sample Status				<b>NORMAL</b>	NORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>1</b>	10	15
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>200	<b>6</b>	5	3
Tin	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

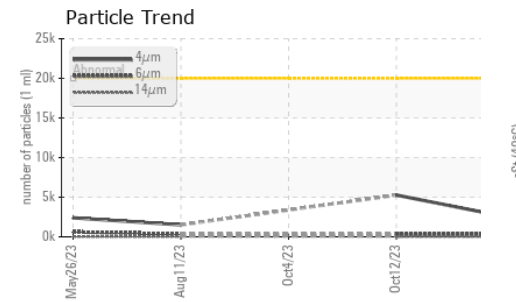
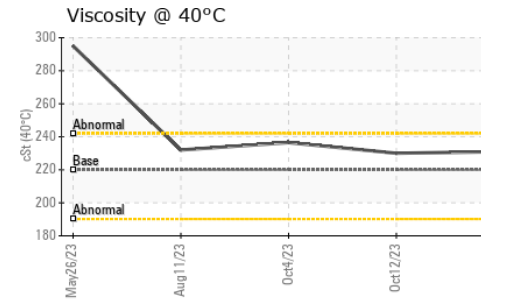
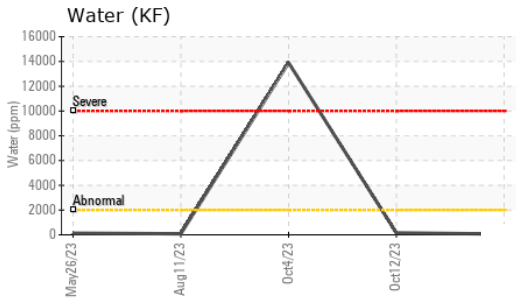
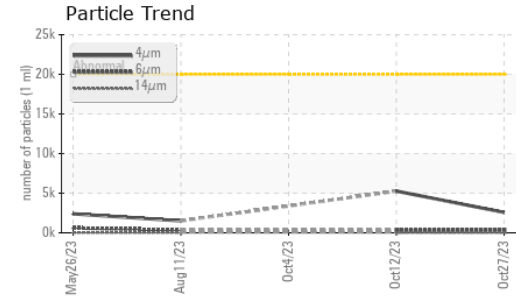
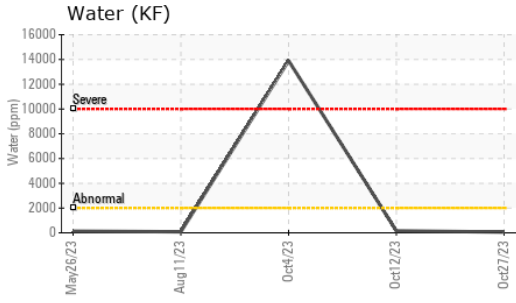
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>1</b>	2	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	2
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	2	4
Phosphorus	ppm	ASTM D5185m		<b>326</b>	388	351
Zinc	ppm	ASTM D5185m		<b>2</b>	5	2
Sulfur	ppm	ASTM D5185m		<b>2546</b>	2372	2152

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>4</b>	9	16
Sodium	ppm	ASTM D5185m		<b>0</b>	4	<1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	0
Water	%	ASTM D6304	>0.2	<b>0.006</b>	0.015	1.39
ppm Water	ppm	ASTM D6304	>2000	<b>61.3</b>	158.5	13900

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>2575</b>	5268	---
Particles >6µm		ASTM D7647	>5000	<b>413</b>	305	---
Particles >14µm		ASTM D7647	>640	<b>25</b>	28	---
Particles >21µm		ASTM D7647	>160	<b>7</b>	9	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/16/12</b>	20/15/12	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.43</b>	1.52	1.33

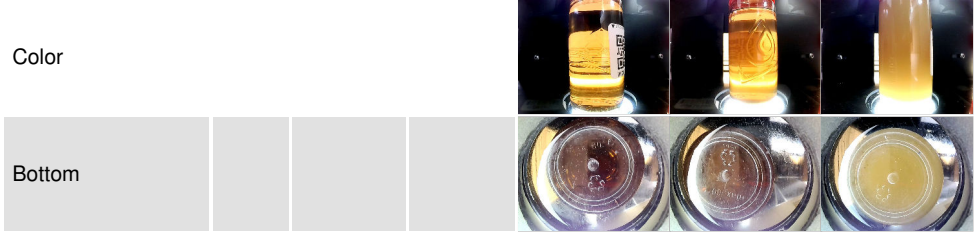
# OIL ANALYSIS REPORT



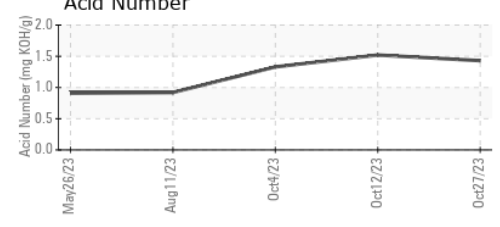
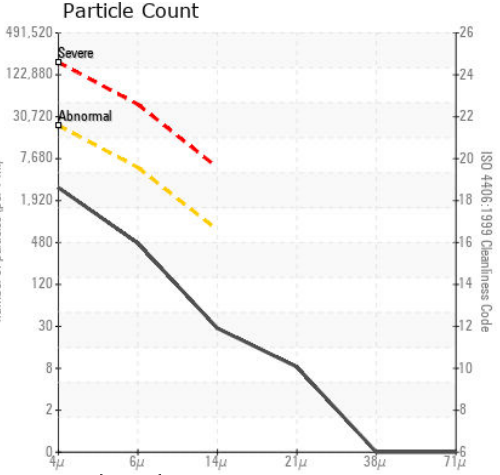
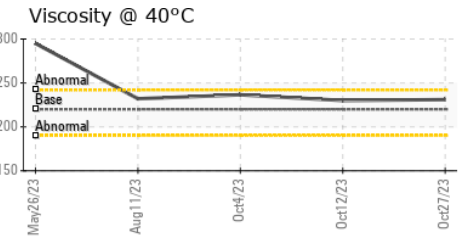
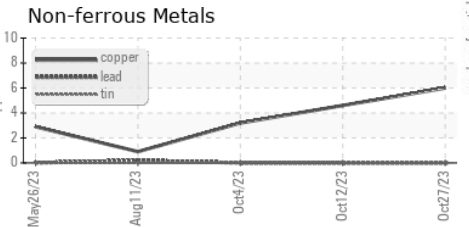
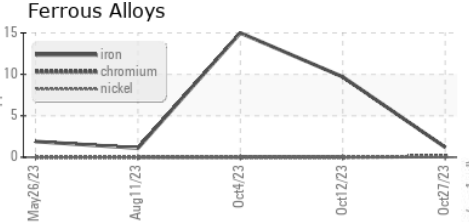
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	▲ LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%
Free Water	scalar	*Visual		NEG	10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	220	231	230	236.5

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0776572 **Received** : 02 Nov 2023  
**Lab Number** : 05997379 **Diagnosed** : 05 Nov 2023  
**Unique Number** : 10725739 **Diagnostician** : Don Baldrige  
**Test Package** : PLANT

**CASCADES CONTAINERBOARD PACKAGING - BEARPACK PROJECT**  
 10026 OLD RIDGE ROAD  
 ASHLAND, VA  
 US 23005  
**Contact: MARC-ANDRE HUBERT**  
 marc-andre\_hubert@cascades.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)