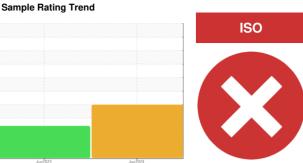


# **PROBLEM SUMMARY**

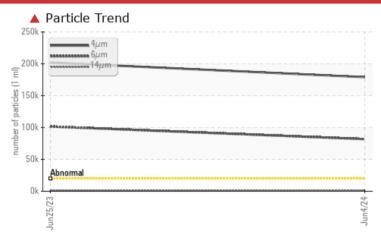


**Recycled Fiber** LF Disc Filter Gearbox

Gearbox

**MOBIL MOBILGEAR SHC 320 (--- GAL)** 

### COMPONENT CONDITION SUMMARY



### **RECOMMENDATION**

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS										
Sample Status		SEVERE	ABNORMAL							
Particles >4µm	ASTM D7647 >2	20000 <b>179052</b>	<u>^</u> 201974							
Particles >6µm	ASTM D7647 >	5000 <b>A 81829</b>	▲ 101575							
Oil Cleanliness	ISO 4406 (c) >2	21/19/16 <b>25/24/17</b>	<u>\$\lambda\$ 25/24/18</u>							

Customer Id: CASASH Sample No.: WC0776509 Lab Number: 06200131 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

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

RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Change Filter			?	We recommend you service the filters on this component.				
Resample			?	Resample in 30-45 days to monitor this situation.				
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.				
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.				
Check Seals			?	Check seals and/or filters for points of contaminant entry.				

### HISTORICAL DIAGNOSIS

### 25 Jun 2023 Diag: Doug Bogart

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high amount of particulates present in the oil. The water content is negligible. The AN level is acceptable for this fluid.



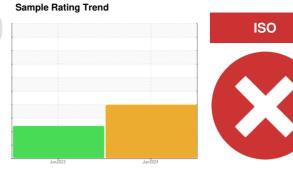


# **OIL ANALYSIS REPORT**

# Recycled Fiber LF Disc Filter Gearbox

Gearbox

**MOBIL MOBILGEAR SHC 320 (--- GAL)** 



### DIAGNOSIS

#### Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. 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 high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

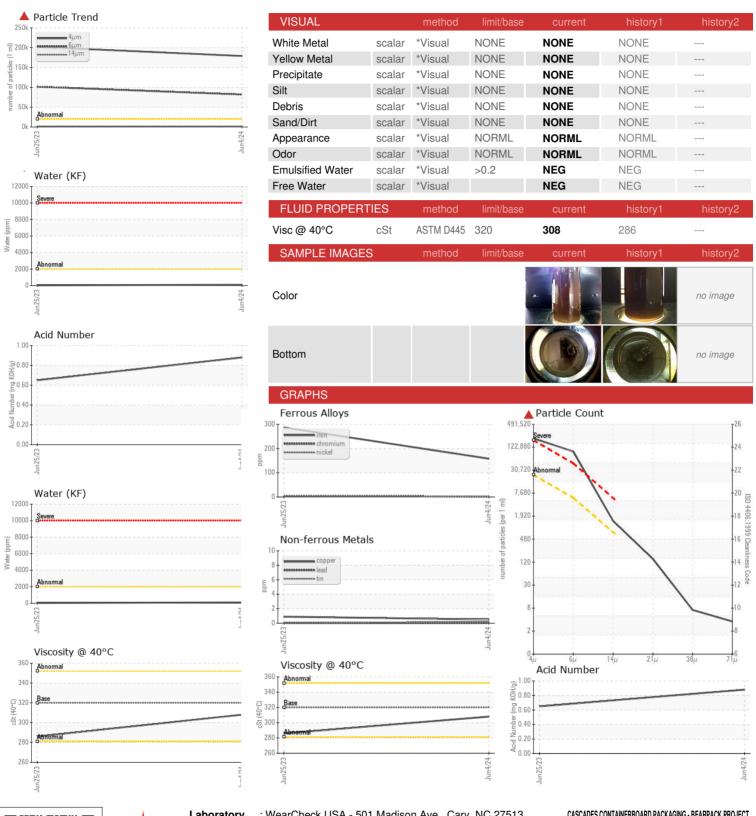
#### **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776509	WC0776627	
Sample Date		Client Info		04 Jun 2024	25 Jun 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	158	<u> </u>	
Chromium	ppm	ASTM D5185m	>15	2	4	
Nickel	ppm	ASTM D5185m	>15	<1	3	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	0	<1	
Lead	ppm	ASTM D5185m	>100	0	0	
Copper	ppm	ASTM D5185m	>200	<1	<1	
Tin	ppm	ASTM D5185m	>25	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		<1	2	
Manganese	ppm	ASTM D5185m		2	2	
Magnesium	ppm	ASTM D5185m		<1	2	
Calcium	ppm	ASTM D5185m		10	34	
Phosphorus	ppm	ASTM D5185m		515	459	
Zinc	ppm	ASTM D5185m		6	0	
Sulfur	ppm	ASTM D5185m		2558	2881	
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	17	22	
Sodium	ppm	ASTM D5185m		1	2	
Potassium	ppm	ASTM D5185m	>20	4	7	
Water	%	ASTM D6304	>0.2	0.009	0.003	
ppm Water	ppm	ASTM D6304	>2000	97	38.0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>179052</b>	<u>^</u> 201974	
Particles >6µm		ASTM D7647	>5000	<b>A</b> 81829	<u> </u>	
Particles >14µm		ASTM D7647	>640	<b>1264</b>	<u> </u>	
Particles >21μm		ASTM D7647	>160	129	133	
Particles >38µm		ASTM D7647	>40	6	0	
Particles >71µm		ASTM D7647	>10	3	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>25/24/17</b>	<u>△</u> 25/24/18	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.88	0.65	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: WC0776509 : 06200131

Unique Number : 11062254 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024 : 06 Jun 2024 Tested

Diagnosed : 06 Jun 2024 - Wes Davis

CASCADES CONTAINERBOARD PACKAGING - BEARPACK PROJECT

10026 OLD RIDGE ROAD ASHLAND, VA US 23005

Contact: MARC-ANDRE HUBERT marc-andre\_hubert@cascades.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

F: Submitted By: MARC-ANDRE HUBERT

T: