

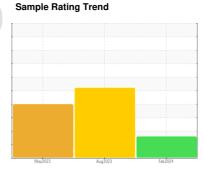
# **OIL ANALYSIS REPORT**

Paper Machine

# **#3 Dryer Section Drive Gearbox**

Component Gearbox

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





## **DIAGNOSIS**

### Recommendation

We advise that you check for the source of water entry. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

All component wear rates are normal.

### Contamination

There is a moderate concentration of water present in the oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

		Ma	2023	Aug 2023 Feb 20	124	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776356	WC0776566	WC0776585
Sample Date		Client Info		22 Feb 2024	11 Aug 2023	26 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		25		
Iron	ppm	ASTM D5185m	>200	13	14	12
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	<1	<1	0
Copper	ppm	ASTM D5185m	>200	2	1	2
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		47	55	65
Barium	ppm	ASTM D5185m		6	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	1
Calcium	ppm	ASTM D5185m		2	2	2
Phosphorus	ppm	ASTM D5185m		307	402	477
Zinc	ppm	ASTM D5185m		9	0	4
Sulfur	ppm	ASTM D5185m		2292	2937	3206
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	10	11	19
Sodium	ppm	ASTM D5185m		25	28	29
Potassium	ppm	ASTM D5185m	>20	3	7	4
Water	%	ASTM D6304	>0.2	<u> </u>	<b>△</b> 0.376	0.014
ppm Water	ppm	ASTM D6304	>2000	<b>470</b>	<b>▲</b> 3760	143.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		▲ 57887	187448
Particles >6µm		ASTM D7647	>5000		<u>▲</u> 31535	114918
Particles >14μm		ASTM D7647	>640		<u>▲</u> 5367	▲ 3834
Particles >21μm		ASTM D7647	>160		<u>▲</u> 1808	81
Particles >38μm		ASTM D7647	>40		<u>^</u> 279	0
Particles >71μm		ASTM D7647	>10		<b>△</b> 28	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16		<u>△</u> 23/22/20	<b>25/24/19</b>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.73

0.76



# **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0776356

: 06099273 **Unique Number** : 10897503

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

Received **Tested** Diagnosed Test Package : PLANT

: 23 Feb 2024 : 27 Feb 2024 : 27 Feb 2024 - Don Baldridge

CASCADES CONTAINERBOARD PACKAGING - BEARPACK PROJECT

10026 OLD RIDGE ROAD ASHLAND, VA

US 23005

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

\* - 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) T: F: