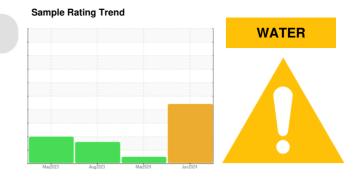


OIL ANALYSIS REPORT

Paper Machine #1 Unit Stretcher Roll

Gearbox

MOBIL MOBILGEAR SHC 320 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of water 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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

An increase in the iron level is noted. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Appearance is hazy. There is a light 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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776487	WC0776518	WC0776565
Sample Date		Client Info		06 Jun 2024	04 Mar 2024	11 Aug 2023
Machine Age	mths	Client Info		6	0	6
Oil Age	mths	Client Info		6	0	6
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	153	40	50
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	2	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	9	1	41
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	6	0
Barium	ppm	ASTM D5185m		<1	2	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		2	0	1
Magnesium	ppm	ASTM D5185m		2	3	3
Calcium	ppm	ASTM D5185m		2	<1	12
Phosphorus	ppm	ASTM D5185m		464	450	453
Zinc	ppm	ASTM D5185m		49	31	19
Sulfur	ppm	ASTM D5185m		5582	3361	2565
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	21	13	46
Sodium	ppm	ASTM D5185m		9	<1	7
Potassium	ppm	ASTM D5185m	>20	5	0	3
Water	%	ASTM D6304	>0.2	△ 0.373	0.004	0.161
ppm Water	ppm	ASTM D6304	>2000	▲ 3730	50	1610
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	191246	3280	▲ 171044
Particles >6µm		ASTM D7647	>5000	^ 72783	1498	▲ 39489
Particles >14µm		ASTM D7647	>640	368	88	173
Particles >21µm		ASTM D7647	>160	13	6	11
Particles >38µm		ASTM D7647	>40	2	0	0
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	25/23/16	19/18/14	<u>△</u> 25/22/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.95	1.02	1.12



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: WC0776487 : 06204615 Unique Number : 11072076

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024

Tested : 17 Jun 2024 Diagnosed : 17 Jun 2024 - Angela Borella

10026 OLD RIDGE ROAD

ASHLAND, VA US 23005 Contact: MARC-ANDRE HUBERT

Test Package : PLANT Certificate 12367 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)

marc-andre_hubert@cascades.com

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