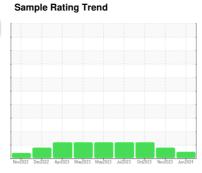


OIL ANALYSIS REPORT

OCC AND PULP 424.4000 #1 HI-CONSISTENCY PULPER

Agitator Gearbox

SHELL MORLINA S4 B 150 (--- GAL)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: Gearbox reported to be making noise)

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0001500	PE0003001	PE0000618
Sample Date		Client Info		05 Jun 2024	30 Nov 2023	03 Oct 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				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		22	14	14
Iron	ppm	ASTM D5185m	>150	9	<1	5
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>50	<1	0	<1
	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		1	<1	0
Calcium	ppm	ASTM D5185m		48	7	6
Phosphorus	ppm	ASTM D5185m		406	422	439
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		831	693	735
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	12	11
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	1
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	80708	<u>12849</u>	▲ 34799
Particles >6µm		ASTM D7647	>1300	18561	871	△ 3059
Particles >14μm		ASTM D7647	>320	71	5	59
Particles >21µm		ASTM D7647	>80	8	2	21
Particles >38µm		ASTM D7647	>20	1	0	2
Particles >71µm		ASTM D7647	>4	0	0	1
011 01 11		100 1100 ()				

ISO 4406 (c) >19/17/15

24/21/13

Oil Cleanliness

<u>\</u> 21/17/10

<u>^</u> 22/19/13



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06209158 Unique Number : 11076619

: PE0001500

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jun 2024 **Tested** Diagnosed

: 15 Jun 2024 : 16 Jun 2024 - Doug Bogart

Test Package: PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) 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)

Port Townsend Paper Corporation 100 Mill Rd

Port Townsend, WA US 98368

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F: