

Area OCC AND PULP Machine Id 424.4000 #1 HI-CONSISTENCY PULPER Component Agitator Gearbox

SHELL MORLINA S4 B 150 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: Component Filter not changed)



All component wear rates are normal.

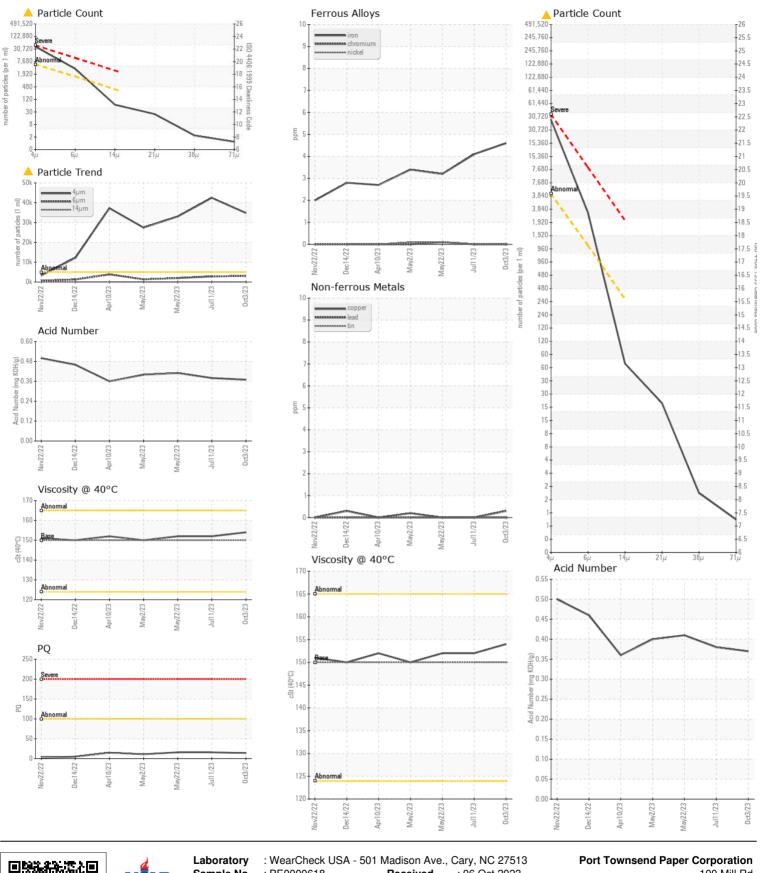
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0000618	PE0000939	PE0000809
Sample Date		Client Info		03 Oct 2023	11 Jul 2023	22 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
DO				14	10	10
PQ	0000	ASTM D8184 ASTM D5185m	>150	5	16 4	16 3
Iron Chromium	ppm	ASTM D5185m	>10	5 0	4	<1
Nickel	ppm			0	0	<1
Titanium	ppm	ASTM D5185m ASTM D5185m	>10	0	0	< 1
Silver	ppm			0	0	0
Aluminum	ppm	ASTM D5185m ASTM D5185m	>25	0		0
Lead	ppm			0	0	0
	ppm	ASTM D5185m ASTM D5185m	>100 >50	0 <1	0	0
Copper Tin	ppm	ASTM D5185m		<1	0	0
Tin Vanadium	ppm		>10	0 <1		0
White Metal	ppm scalar	ASTM D5185m *Visual	NONE	<1 NONE	<1 NONE	NONE
			NONE	-		
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	11	11	10
Potassium	ppm	ASTM D5185m	>20	1	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	🔺 34799	42446	▲ 33058
Particles >6µm		ASTM D7647	>1300	A 3059	🔺 2832	1991
Particles >14µm		ASTM D7647	>320	59	38	17
Particles >21µm		ASTM D7647	>80	21	8	4
Particles >38µm		ASTM D7647	>20	2	0	1
Particles >71µm		ASTM D7647	>4	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/15	🔺 22/19/13	2 3/19/12	<u> </u>
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	_	<1	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	1	<1
Calcium	ppm	ASTM D5185m		6	0	2
Phosphorus	ppm	ASTM D5185m		439	446	436
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		735	857	822
Acid Number (AN)	mg KOH/g	ASTM D8045		0.37	0.38	0.41
Visc @ 40°C	cSt	ASTM D0045	150	154	152	152
	001	70 HW D440	100		102	102



: PE0000618 Sample No. Received : 06 Oct 2023 100 Mill Rd Lab Number : 05972170 : 09 Oct 2023 Port Townsend, WA Tested Unique Number : 10684120 : 11 Oct 2023 - Don Baldridge US 98368 Diagnosed Test Package : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) Contact: LONNIE LOREE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. lonnie.loree@ptpc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (907)738-6506 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Submitted By: DUANE DENOTTA

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