

PROBLEM SUMMARY

OCC AND PULP 423.0510 C-Blow Tank Agitator

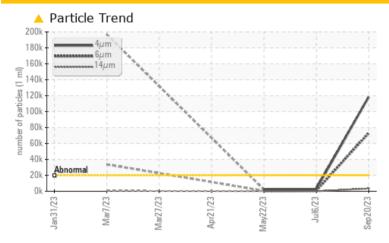
Agitator Gearbox

SHELL MORLINA S4 B 460 (15 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST	RESULTS				
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>20000	118488	2657	2154
Particles >6µm	ASTM D7647	>5000	73118	723	547
Particles >14µm	ASTM D7647	>640	4 3452	39	44
Oil Cleanliness	ISO 4406 (c)	>21/19/16	24/23/19	19/17/12	18/16/13

Customer Id: PORPORWA **Sample No.:** PE0001413 Lab Number: 05968798 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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 if applicable.

HISTORICAL DIAGNOSIS

06 Jul 2023 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

View report

22 May 2023 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

21 Apr 2023 Diag: Jonathan Hester

VISUAL METAL



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



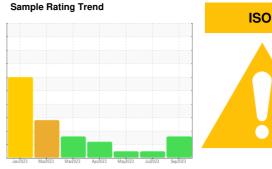


OIL ANALYSIS REPORT

OCC AND PULP 423.0510 C-Blow Tank Agitator

Agitator Gearbox

SHELL MORLINA S4 B 460 (15 GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

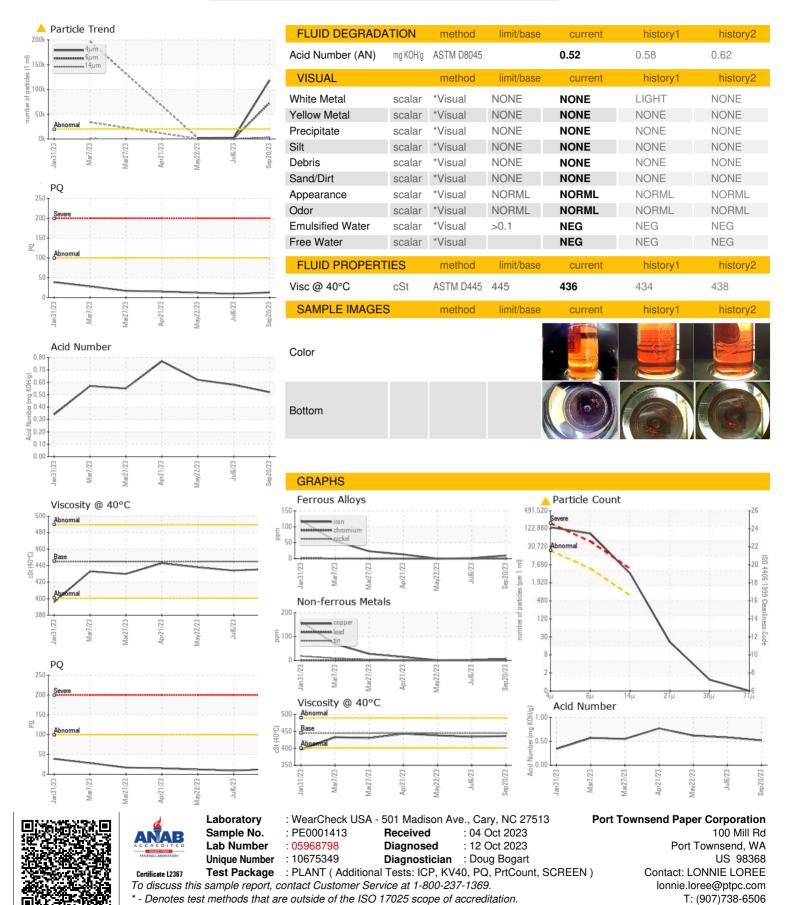
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0001413	PE0000896	PE0000811
Sample Date		Client Info		20 Sep 2023	06 Jul 2023	22 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	NORMAL	NORMAL
CONTAMINATION	N	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		13	9	12
Iron	ppm	ASTM D5185m	>150	10	2	0
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	6	2	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2 0
	ppm		limit/base			
Boron		ASTM D5185m	limit/base	0	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 0	0 0 0 <1	0
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	0 0 0	0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 <1 2	0 0 0 <1 2	0 0 0 <1 <1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 <1 2 228	0 0 0 <1 2 0 251	0 0 0 <1 <1 <1 <1 253
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 <1 2 228 <1	0 0 0 <1 2 0 251	0 0 0 <1 <1 <1 <1 253
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 <1 2 228	0 0 0 <1 2 0 251	0 0 0 <1 <1 <1 <1 253
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 <1 2 228 <1	0 0 0 <1 2 0 251	0 0 0 <1 <1 <1 253 0 667
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 <1 2 228 <1 605	0 0 0 <1 2 0 251 0 683	0 0 0 <1 <1 <1 253 0 667
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	0 0 0 0 <1 2 228 <1 605	0 0 0 <1 2 0 251 0 683	0 0 0 <1 <1 <1 253 0 667 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50	0 0 0 0 <1 2 228 <1 605	0 0 0 <1 2 0 251 0 683 history1	0 0 0 <1 <1 <1 253 0 667 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m	limit/base >50	0 0 0 0 <1 2 2228 <1 605 current 4 2 <1	0 0 0 <1 2 0 251 0 683 history1 2	0 0 0 <1 <1 <1 253 0 667 history2 2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m	limit/base >50 >20 limit/base >20000	0 0 0 0 <1 2 2228 <1 605 current 4 2 <1 current 118488	0 0 0 <1 2 0 251 0 683 history1 2	0 0 0 <1 <1 <1 253 0 667 history2 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D5185m method ASTM D5185m	limit/base >50 >20 limit/base >20000 >5000	0 0 0 0 <1 2 228 <1 605 current 4 2 <1 current ▲ 118488 ▲ 73118	0 0 0 <1 2 0 251 0 683 history1 2 0 2 history1 2657 723	0 0 0 <1 <1 <1 253 0 667 history2 2 0 2 history2 2154
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >5000 >640	0 0 0 0 <1 2 228 <1 605 current 4 2 <1 current ▲ 118488 ▲ 73118 ▲ 3452	0 0 0 <1 2 0 251 0 683 history1 2 0 2 history1 2657 723 39	0 0 0 <1 <1 <1 253 0 667 history2 2 0 2 history2 2154 547
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >5000	0 0 0 0 <1 2 228 <1 605 current 4 2 <1 current ▲ 118488 ▲ 73118	0 0 0 <1 2 0 251 0 683 history1 2 0 2 history1 2657 723	0 0 0 <1 <1 <1 253 0 667 history2 2 0 2 history2 2154
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >5000 >640 >160 >40	0 0 0 0 <1 2 228 <1 605 current 4 2 <1 current 118488 73118 3452 18 1	0 0 0 0 <1 2 0 251 0 683 history1 2 0 2 history1 2657 723 39 12	0 0 0 <1 <1 <1 253 0 667 history2 2 0 2 history2 2154 547
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	limit/base >50 >20 limit/base >20000 >5000 >640 >160 >40	0 0 0 0 <1 2 228 <1 605 current 4 2 <1 current 118488 73118 3452 18	0 0 0 0 <1 2 0 251 0 683 history1 2 0 2 history1 2657 723 39 12	0 0 0 <1 <1 <1 253 0 667 history2 2 0 2 history2 2154 547 44



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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