WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ATTENTION NORMAL

STEAM AND POWER

270.0220 C BOTTOM ASH CRUSHER

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		PE0003954		
	Sample Date		Client Info		24 Jan 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				ATTENTION		
VEAR	PQ		ASTM D8184		12		
VEAN	Iron	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	720	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>20	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	\15	<1		
ONTAMINATION	Potassium	ppm	ASTM D5185m		<1		
There is a moderate amount of particulates present in the oil.	Water	ppiii	WC Method		NEG		
	Particles >4µm		ASTM D7647		3171		
	Particles >6µm		ASTM D7647		1431		
	Particles >14μm		ASTM D7647		243		
	Particles >21μm		ASTM D7647	>40	4 92		
	Particles >38μm		ASTM D7647	>10	8		
	Particles >71μm		ASTM D7647	>3	1		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	1 9/18/15		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		0		
LOID CONDITION	Boron	ppm	ASTM D5185m	5	0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5105m		13		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5105m		<1		
	Magnesium	ppm	ASTM D5185m	25	16		
	Calcium	ppm	ASTM D5185m		54		
	Phosphorus	ppm	ASTM D5185m		422		
	Zinc	ppm	ASTM D5185m		432		
	Sulfur	ppm	ASTM D5185m		1297		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.34		
	Visc @ 40°C	cSt	ASTM D445		46.1		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06085962

: PE0003954

Unique Number : 10873407

Received **Tested**

: 13 Feb 2024 Diagnosed : 13 Feb 2024 - Don Baldridge Test Package: PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN)

: 12 Feb 2024

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. **Port Townsend Paper Corporation**

100 Mill Rd Port Townsend, WA US 98368 Contact: LONNIE LOREE

lonnie.loree@ptpc.com T: (907)738-6506

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

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