**WEAR** CONTAMINATION **FLUID CONDITION** 

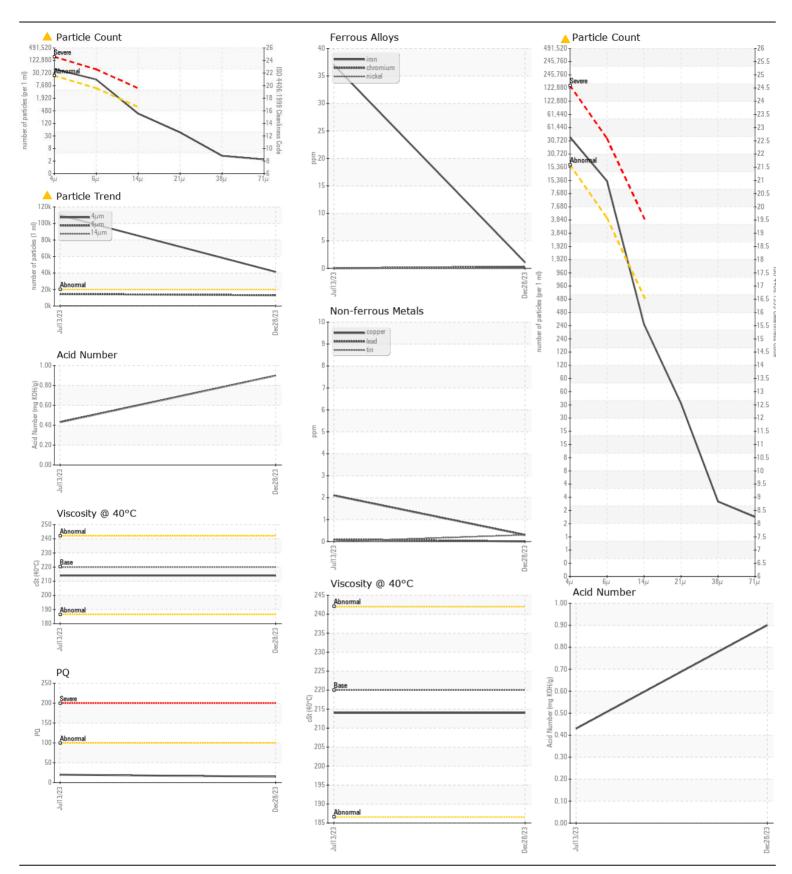
**NORMAL ABNORMAL NORMAL** 

PAPER MACHINE

701.0150 Refiner #6

Component Gearbox

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. ( Customer Sample Comment: Top 2" Pipe )	Sample Number		Client Info		PE0002922	PE0000933	
	Sample Date		Client Info		28 Dec 2023	13 Jul 2023	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		15	20	
	Iron	ppm	ASTM D5185m	>200	1	37	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	210	<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	2	0	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		<1	2	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m	723	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1	3	
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		<1	2	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		<u>41340</u>	109985	
	Particles >6µm		ASTM D7647		<u> </u>	<u> </u>	
	Particles >14μm		ASTM D7647		310	252	
	Particles >21μm		ASTM D7647		39	32	
	Particles >38μm		ASTM D7647		3	1	
	Particles >71μm		ASTM D7647		2	0	
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 23/21/15	<u>4</u> 24/21/15	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	
LOID CONDITION	Boron	ppm	ASTM D5185m		6	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	0	
	Manganese	ppm	ASTM D5185m		0	2	
	Magnesium	ppm	ASTM D5185m		0	<1	
	Calcium		ASTM D5185m		2	4	
	Phosphorus	ppm	ASTM D5185m		319	215	
		ppm				0	
	Zinc Sulfur	ppm	ASTM D5185m		0		
		ppm	ASTM D5185m		3291	8850	
	Acid Number (AN)	mg KOH/g	ASTM D8045	000	0.90	0.43	
	Visc @ 40°C	cSt	ASTM D445	220	214	214	





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: PE0002922 : 06061885 : 10833267

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024

Diagnosed : 23 Jan 2024 Diagnostician : Doug Bogart

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

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

**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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