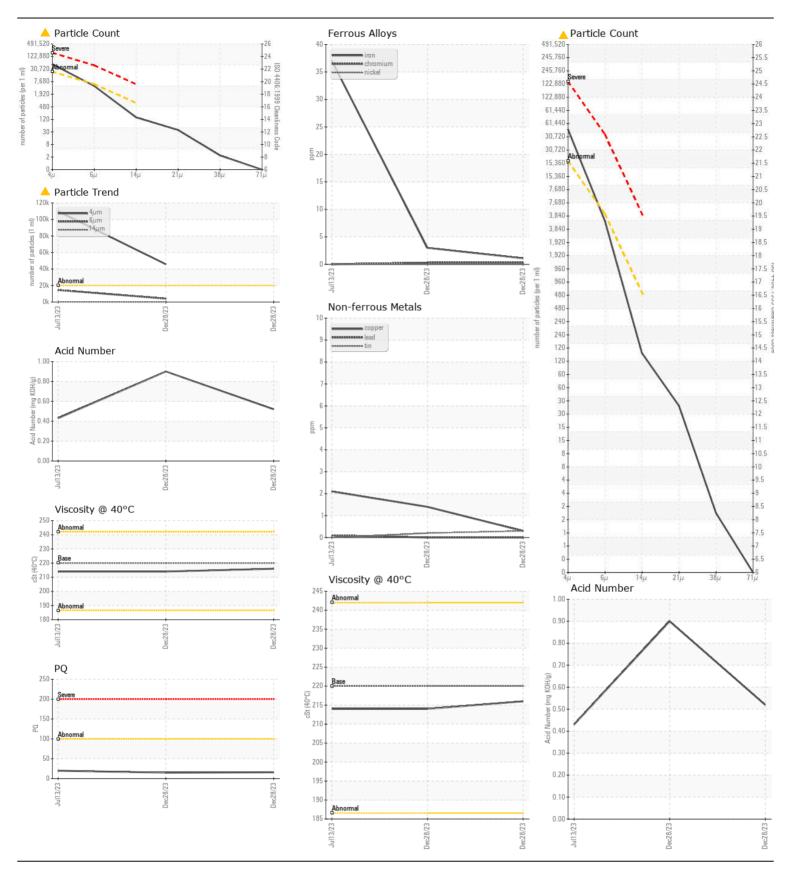
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

## PAPER MACHINE

**701.0150 Refiner #6** 

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. ( Customer Sample Comment: Regular sample location )	Sample Number		Client Info		PE0002923	PE0002922	PE000093
	Sample Date		Client Info		28 Dec 2023	28 Dec 2023	13 Jul 202
	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		ABNORMA
WEAR	PQ		ASTM D8184		16	15	20
	Iron	ppm	ASTM D5185m	>200	3	1	37
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m	>15	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	0
	Lead	ppm	ASTM D5185m	>100	0	0	<1
	Copper	ppm	ASTM D5185m	>200	1	<1	2
	Tin	ppm	ASTM D5185m	>25	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	<1	<1	3
	Potassium	ppm	ASTM D5185m	>20	<1	<1	2
There is a high amount of silt (particulates < 6 microns in size) present in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>20000	<b>45756</b>		<b>1</b> 0998
	Particles >6µm		ASTM D7647	>5000	4143		<u></u> 14545
	Particles >14μm		ASTM D7647	>640	131		252
	Particles >21μm		ASTM D7647	>160	33		32
	Particles >38μm		ASTM D7647	>40	2		1
	Particles >71μm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>23/19/14</u>		<u>4</u> 24/21/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	<1
	Boron	ppm	ASTM D5185m		0	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	0
	Molybdenum	ppm	ASTM D5185m		0	<1	0
	Manganese	ppm	ASTM D5185m		0	0	2
	Magnesium	ppm	ASTM D5185m		0	0	<1
	Calcium	ppm	ASTM D5185m		1	2	4
	Phosphorus	ppm	ASTM D5185m		239	319	215
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m		2600	3291	8850
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	0.90	0.43
	Visc @ 40°C	cSt	ASTM D445	220	216	214	214





Certificate L2367

Laboratory Sample No. Lab Number

: PE0002923 : 06061887 : 10833269 **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 18 Jan 2024 Diagnostician : Jonathan Hester

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

F: