

STEAM AND POWER

416.0115 (1) PRIMARY CLARIFIER #1 GEARBOX

Circle Gearbox

{not provided} (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.



All component wear rates are normal.

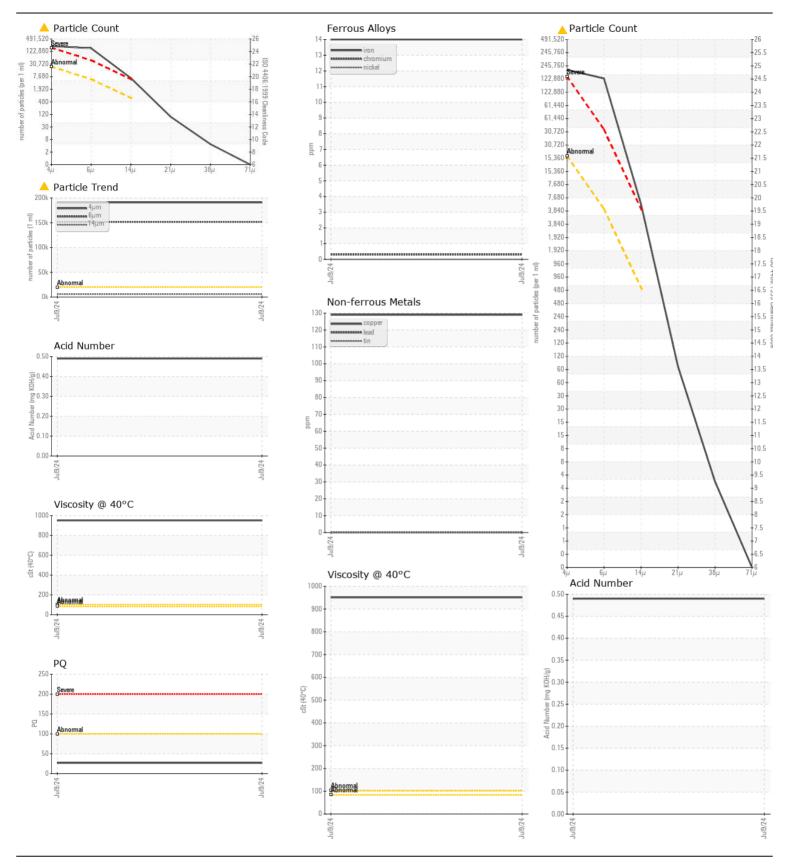
CONTAMINATION

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 acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0001510		
Sample Date		Client Info		09 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
PQ		ASTM D8184		27		
Iron	ppm	ASTM D5185m	>200	14		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m		14		
Lead	ppm	ASTM D5185m		<1		
Copper	ppm	ASTM D5185m		129		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Ciliara				•		
Silicon	ppm	ASTM D5185m	00	2		
Potassium	ppm	ASTM D5185m		-		
Water		WC Method	>0.2	NEG		
Particles >4µm		ASTM D7647 ASTM D7647	>20000 >5000	▲ 190894		
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>640	151715 5678		
Particles >21µm		ASTM D7647 ASTM D7647	>160	<u> </u>		
Particles >38µm		ASTM D7647 ASTM D7647	>40	4		
Particles >30µm Particles >71µm		ASTM D7647 ASTM D7647	>40	4		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/24/20		
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		*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		16		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		206		
Zinc	ppm	ASTM D5185m		98		
Sulfur	ppm	ASTM D5185m		456		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49		
Visc @ 40°C	cSt	ASTM D445		951		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Port Townsend Paper Corporation Sample No. : PE0001510 Received : 15 Jul 2024 100 Mill Rd : 06235774 Lab Number Tested : 16 Jul 2024 Port Townsend, WA Unique Number : 11124608 US 98368 Diagnosed : 16 Jul 2024 - Don Baldridge 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 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: DUANE DENOTTA Page 2 of 2