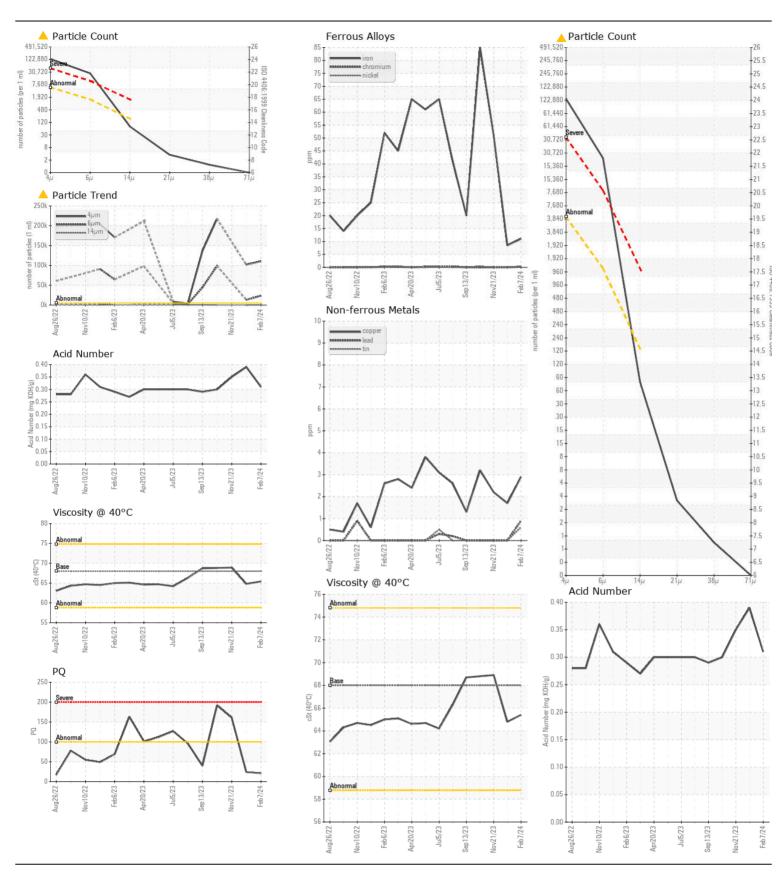
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

Shredder Machine Id ORU (Oil Recirculate Unit)-Shredder

Component Hydraulic Power Pack

	Toct	UOM	Method	Limit/Abn	Current	History1	History?
RECOMMENDATION	Test Sample Number	UOIVI	Client Info	LIMIT/ADI	PE0000747	PE0000743	History2 PE0000729
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.	Sample Date		Client Info		07 Feb 2024	09 Jan 2024	21 Nov 2020
	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	1110	Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	PQ		ASTM D8184		21	24	1 61
WLAIT	Iron	ppm	ASTM D5185m	>20	11	8	51
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	720	<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	0	0
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m	>20	3	2	2
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m	720	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	×15	<1	<1	1
CONTAMINATION	Potassium	ppm	ASTM D5185m		1	0	2
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	ppiii	WC Method	>0.05	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		▲ 110481	▲ 101531	
	Particles >6µm		ASTM D7647		▲ 23306	▲ 13014	
	Particles >14µm		ASTM D7647		67	23	
	Particles >21µm		ASTM D7647		3	3	
	Particles >38µm		ASTM D7647		1	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		<u> 24/22/13</u>	<u>4</u> 24/21/12	
	Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML		▲ MILKY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.05	NEG	NEG	0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	4
The ANI level is a secondable for this fleid. The condition of the efficient	Boron	ppm	ASTM D5185m		0	0	1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		13	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	0
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		6	0	7
	Calcium	ppm	ASTM D5185m		47	37	45
	Phosphorus	ppm	ASTM D5185m		335	311	283
	Zinc	ppm	ASTM D5185m		359	383	347
	Sulfur	ppm	ASTM D5185m		906	771	782
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.31	0.39	0.35
	Visc @ 40°C	cSt	ASTM D445	68	65.4	64.8	68.9





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10873410

: PE0000747 : 06085965

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 12 Feb 2024 Received : 13 Feb 2024 **Tested** : 13 Feb 2024 - Don Baldridge Diagnosed

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

Seattle Iron and Metals

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