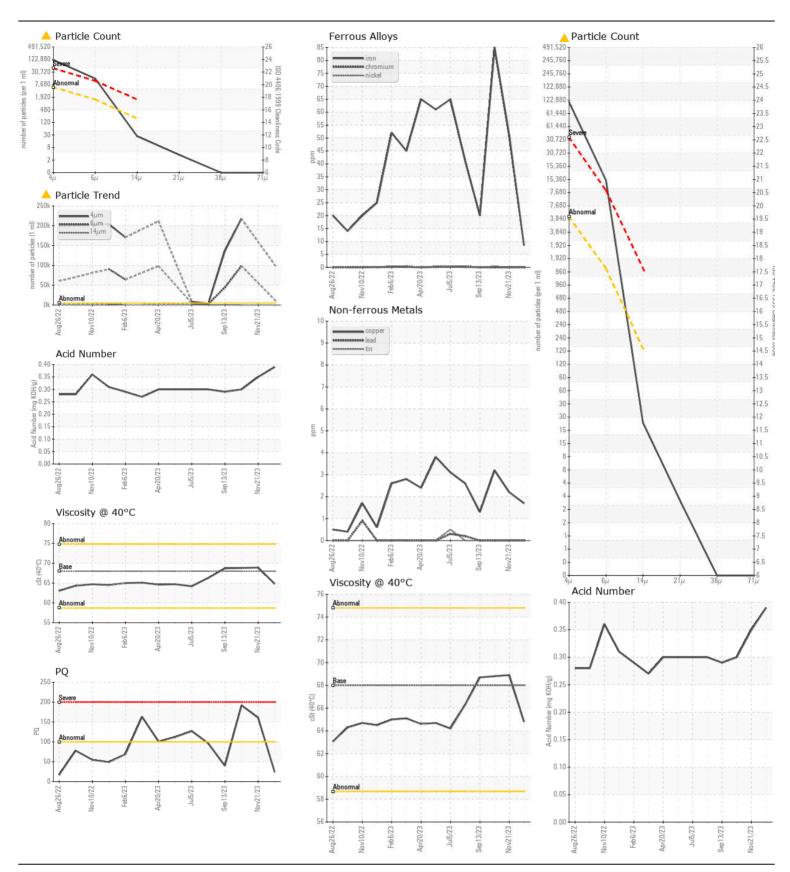
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

Shredder Machine Id ORU (Oil Recirculate Unit)-Shredder

Component Hydraulic Power Pack

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ILCOMMENDATION	Sample Number	OOW	Client Info	LITTIO7 COTT	PE0000743	PE0000729	PE0000616
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Jan 2024	21 Nov 2023	13 Oct 2023
	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	SEVERE	SEVERE
WEAR	PQ		ASTM D8184		24	1 61	192
VEAIL	Iron	ppm	ASTM D5185m	>20	8	5 1	85
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	0	0
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m	720	0	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	0	0	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>20	2	2	3
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium		ASTM D5185m	>20	0	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
OONT A BAIN A TION	Ciliana		ACTA DE10E	4.5		4	
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1 0	1 2	1
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium Water	ppm	ASTM D5185m		NEG	NEG	NEG
			WC Method	>0.05			
	Particles >4µm Particles >6µm		ASTM D7647		101531		△ 217509 △ 98686
	Particles >6µm		ASTM D7647 ASTM D7647		13014 23		127
	Particles >14µm		ASTM D7647		3		
	· ·				0		2
	Particles >38µm		ASTM D7647		0		0
	Particles >71µm		ASTM D7647		_		25/24/14
	Oil Cleanliness		ISO 4406 (c)		A 24/21/12		
	Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Debris Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NONE	NONE
		scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%	0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	4	3
	Boron	ppm	ASTM D5185m		0	1	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	0	0
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m		0	7	6
	Calcium	ppm	ASTM D5185m		37	45	47
	Phosphorus	ppm	ASTM D5185m		311	283	209
	Zinc	ppm	ASTM D5185m		383	347	286
	Sulfur	ppm	ASTM D5185m		771	782	647
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.35	0.30
	Visc @ 40°C	cSt	ASTM D445		64.8	68.9	68.8





Certificate L2367

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

: 06060934

: PE0000743 : 10832316

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 16 Jan 2024 Recieved Diagnosed : 17 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Seattle Iron and Metals 601 S MYRTLE ST

SEATTLE, WA US 98108 Contact: ADAM THOMAS

athomas@seairon.com T: (206)682-0040

F: