

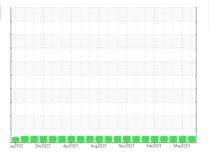
# **OIL ANALYSIS REPORT**

Shredder

# In-Feed Conveyor- Shredder

Hydraulic Power Pack

SHELL HYDRAULIC S1 M 68 (--- GAL)



Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	AT <u>ION</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0001507	PE0002220	PE0003609
Sample Date		Client Info		10 Jul 2024	20 May 2024	18 Apr 2024
	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		19	13	15
Iron	ppm	ASTM D5185m	>20	<1	0	1
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	0	3
Lead	ppm	ASTM D5185m	>20	0	0	<1
	ppm	ASTM D5185m	>20	3	3	4
	ppm	ASTM D5185m	>20	0	0	<1
	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
	ppiii	HICOLCG INLEY		U	<u> </u>	
Magnesium	ppm	ASTM D5185m		8	11	10
				-		
Calcium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m		8 57 284	11 50 280	10
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		8 57 284 309	11 50 280 291	10 46 273 283
Calcium Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		8 57 284	11 50 280	10 46 273 283 624
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	8 57 284 309 840 current	11 50 280 291 760 history1	10 46 273 283 624 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	8 57 284 309 840 current	11 50 280 291 760 history1	10 46 273 283 624 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>15	8 57 284 309 840 current <1 1	11 50 280 291 760 history1 0 <1	10 46 273 283 624 history2 <1
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method  ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>15	8 57 284 309 840 current	11 50 280 291 760 history1 0 <1	10 46 273 283 624 history2 <1 0 2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20 limit/base	8 57 284 309 840 current <1 1 0 current	11 50 280 291 760 history1 0 <1 0	10 46 273 283 624 history2 <1 0 2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15 >20 limit/base >5000	8 57 284 309 840 current <1 1 0 current 266	11 50 280 291 760 history1 0 <1 0 history1 331	10 46 273 283 624 history2 <1 0 2 history2 250
Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINE Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15 >20 limit/base >5000 >1300	8 57 284 309 840 current <1 1 0 current 266 98	11 50 280 291 760 history1 0 <1 0 history1 331 37	10 46 273 283 624 history2 <1 0 2 history2 250 35
Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160	8 57 284 309 840 current <1 1 0 current 266 98 9	11 50 280 291 760 history1 0 <1 0 history1 331 37 4	10 46 273 283 624 history2 <1 0 2 history2 250 35 3
Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40	8 57 284 309 840 current <1 1 0 current 266 98 9 2	11 50 280 291 760 history1 0 <1 0 history1 331 37 4	10 46 273 283 624 history2 <1 0 2 history2 250 35 3 0
Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40 >10	8 57 284 309 840 current <1 1 0 current 266 98 9 2 0	11 50 280 291 760 history1 0 <1 0 history1 331 37 4 2	10 46 273 283 624 history2 <1 0 2 history2 250 35 3 0 0
Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 limit/base >5000 >1300 >160 >40	8 57 284 309 840 current <1 1 0 current 266 98 9 2	11 50 280 291 760 history1 0 <1 0 history1 331 37 4	10 46 273 283 624 history2 <1 0 2 history2 250 35 3 0



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PE0001507 Lab Number : 06239550 Unique Number : 11128384

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** : 18 Jul 2024

: 19 Jul 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.

 $^st$  - 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)

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