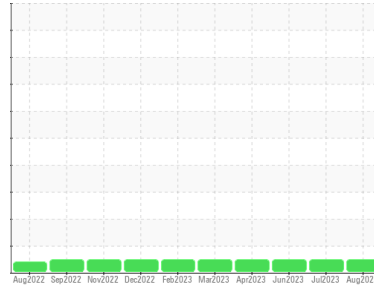




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Shredder**  
 Machine Id  
**In-Feed Conveyor- Shredder**  
 Component  
**Hydraulic Power Pack**  
 Fluid  
**SHELL HYDRAULIC S1 M 68 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PE0001434</b>	PE0000650	PE0001404
Sample Date	Client Info	<b>18 Aug 2023</b>	05 Jul 2023	07 Jun 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	<b>11</b>	11	12
Iron	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0
Silver	ppm	ASTM D5185m	<b>0</b>	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	1
Lead	ppm	ASTM D5185m >20	<b>0</b>	<1
Copper	ppm	ASTM D5185m >20	<b>3</b>	2
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0
Barium	ppm	ASTM D5185m	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1
Manganese	ppm	ASTM D5185m	<b>0</b>	<1
Magnesium	ppm	ASTM D5185m	<b>9</b>	11
Calcium	ppm	ASTM D5185m	<b>52</b>	64
Phosphorus	ppm	ASTM D5185m	<b>272</b>	292
Zinc	ppm	ASTM D5185m	<b>301</b>	311
Sulfur	ppm	ASTM D5185m	<b>708</b>	956

## CONTAMINANTS

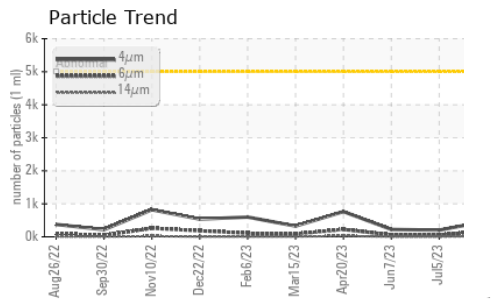
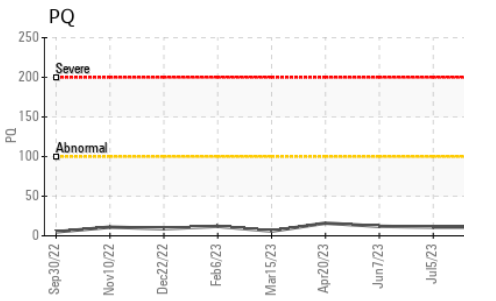
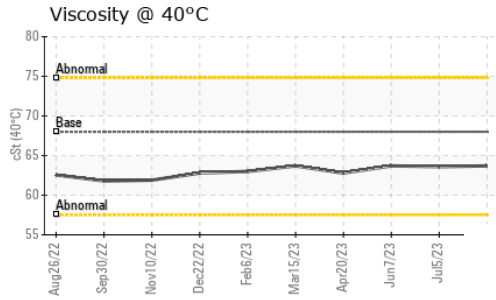
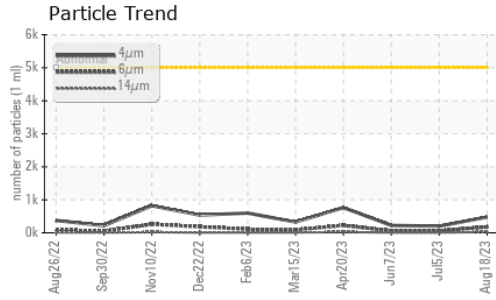
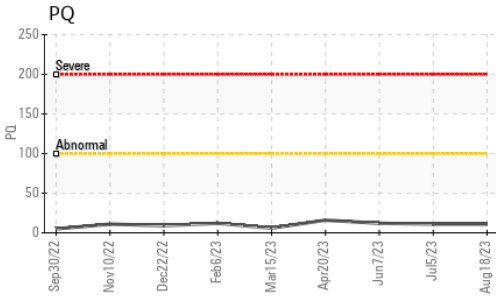
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1
Sodium	ppm	ASTM D5185m	<b>2</b>	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>476</b>	203
Particles >6µm	ASTM D7647	>1300	<b>180</b>	55
Particles >14µm	ASTM D7647	>160	<b>22</b>	6
Particles >21µm	ASTM D7647	>40	<b>6</b>	1
Particles >38µm	ASTM D7647	>10	<b>0</b>	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>16/15/12</b>	15/13/10

## FLUID DEGRADATION

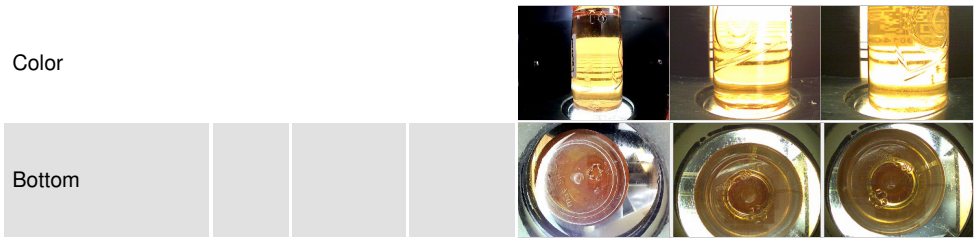
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.24</b>	0.23



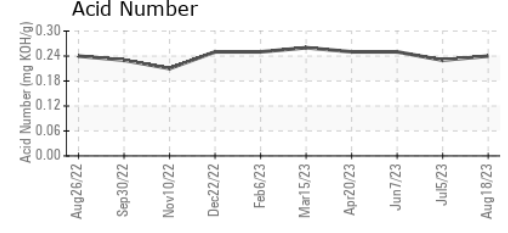
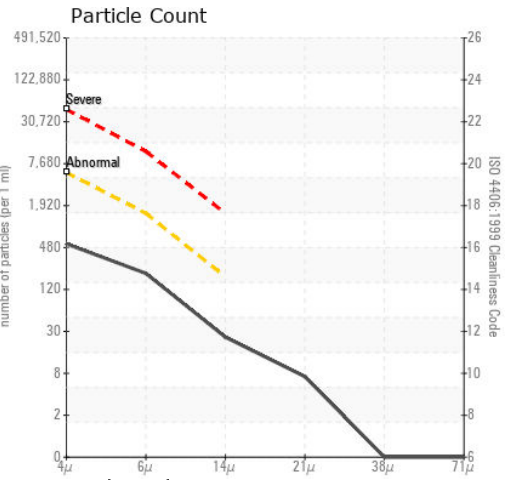
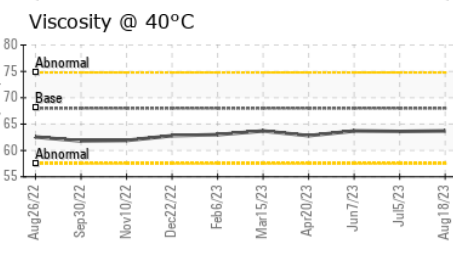
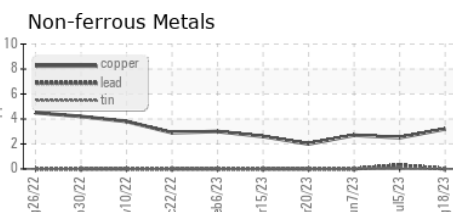
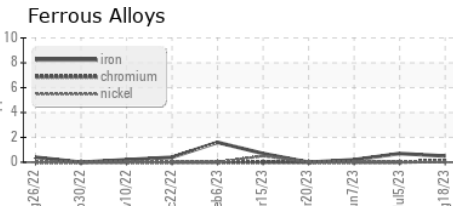
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	63.7	63.6	63.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0001434 **Received** : 21 Aug 2023  
**Lab Number** : 05930277 **Diagnosed** : 23 Aug 2023  
**Unique Number** : 10615548 **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)

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