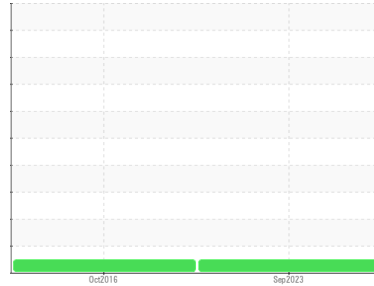




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**[212217]**

Machine Id

**EXCEL EX62 MENASHA EXCEL BALER (S/N EX-2164)**

Component

**Hydraulic System**

Fluid

**FIRE-RESISTANT FLUID ISO 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

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. There is no indication of any contamination in the oil.

### 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>WC0836600</b>	WCI2300200	---
Sample Date	Client Info			<b>26 Sep 2023</b>	23 Oct 2016	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>Filtered</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>1</b>	4	---
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Antimony	ppm	ASTM D5185m		<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>2</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	5	<b>2</b>	0	---
Calcium	ppm	ASTM D5185m	50	<b>5</b>	50	---
Phosphorus	ppm	ASTM D5185m	175	<b>3</b>	317	---
Zinc	ppm	ASTM D5185m	62	<b>2</b>	446	---
Sulfur	ppm	ASTM D5185m	500	<b>26</b>	1126	---

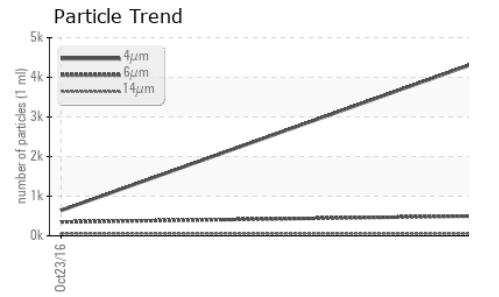
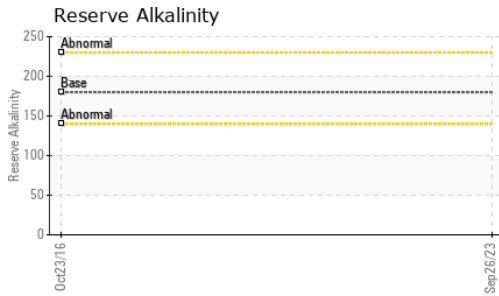
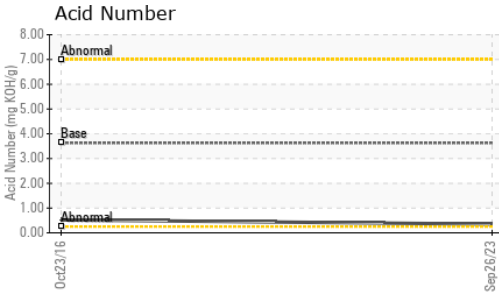
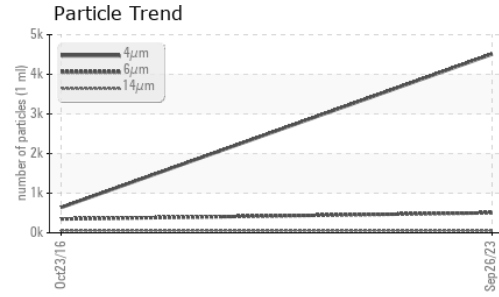
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Sodium	ppm	ASTM D5185m		<b>44</b>	1	---
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>4511</b>	639	---
Particles >6µm		ASTM D7647	>5000	<b>505</b>	348	---
Particles >14µm		ASTM D7647	>640	<b>52</b>	59	---
Particles >21µm		ASTM D7647	>160	<b>19</b>	20	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	3	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/16	<b>16/13</b>	16/16/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.63	<b>0.35</b>	0.522	---



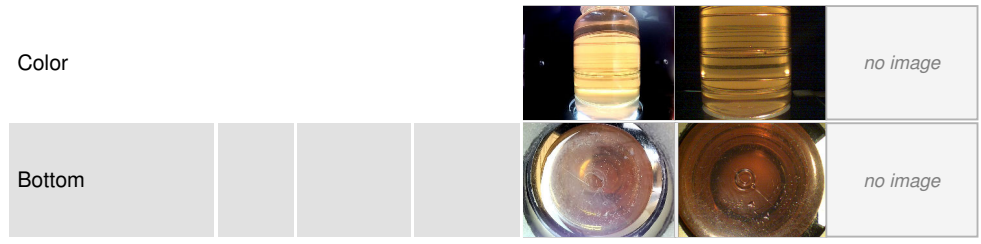
# OIL ANALYSIS REPORT



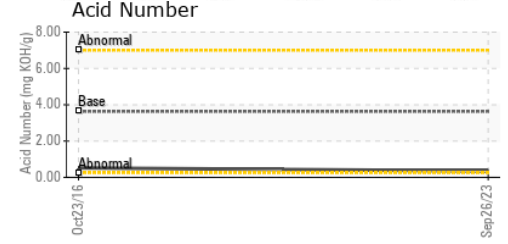
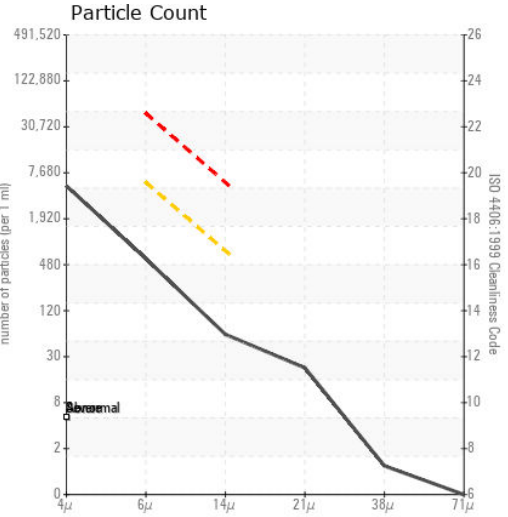
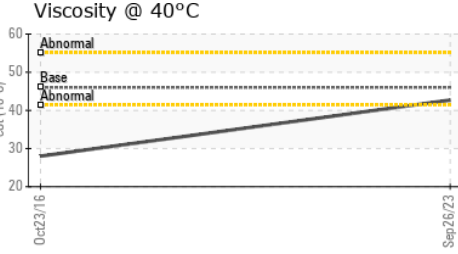
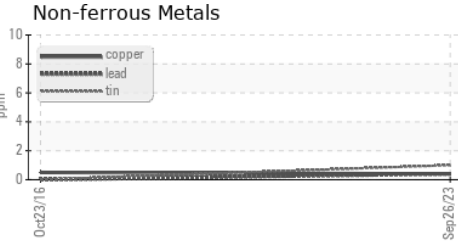
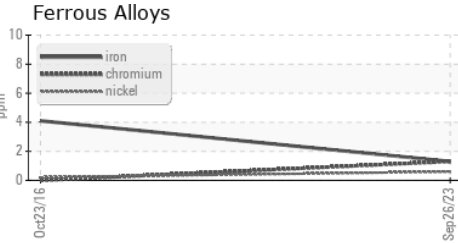
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>55	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	42.7	28.01

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0836600 **Received** : 02 Oct 2023  
**Lab Number** : 05967007 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10673558 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, pH, ReserveAlk )

**ADVANCED EQUIPMENT SALES**  
 535 HAGEY RD  
 SOUDERTON, PA  
 US 18964  
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 jburnley@aesales.net  
 T: (215)723-7200  
 F: (215)723-7201

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)