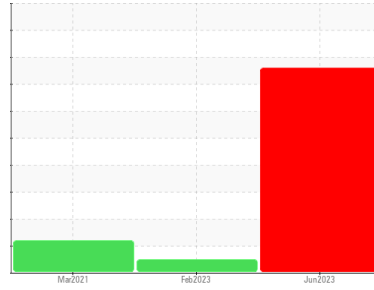




# PROBLEM SUMMARY

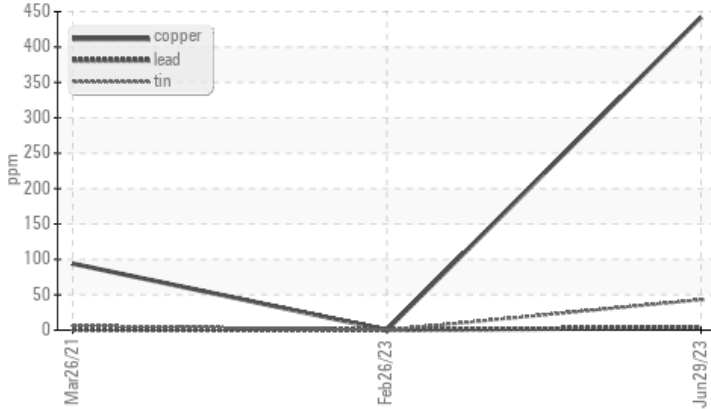
Area  
**[23211048]**  
 Machine Id  
**B21613 - 3 (S/N 69700018)**  
 Component  
**Gearbox**  
 Fluid  
**JAX MAGNA-PLATE 85W140-FG (--- GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### Non-ferrous Metals



## RECOMMENDATION

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	ATTENTION
Copper	ppm	ASTM D5185m	>200	🔴 <b>442</b>	<1	94
Tin	ppm	ASTM D5185m	>25	🟡 <b>43</b>	0	6
Silt	scalar	*Visual	NONE	🟡 <b>MODER</b>	NONE	NONE

Customer Id: HORBEL  
 Sample No.: WC0799726  
 Lab Number: 05901266  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS

### 26 Feb 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is suitable for further service.

view report



### 26 Mar 2021 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





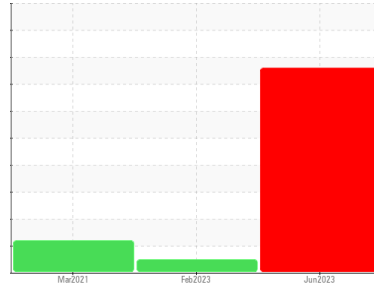
# OIL ANALYSIS REPORT

## Sample Rating Trend

WEAR



Area  
**[23211048]**  
 Machine Id  
**B21613 - 3 (S/N 69700018)**  
 Component  
**Gearbox**  
 Fluid  
**JAX MAGNA-PLATE 85W140-FG (--- GAL)**



### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

Bearing and/or gear wear is indicated.

#### Contamination

There is a moderate amount of visible silt present in the sample.

#### Fluid Condition

The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0799726</b>	WC0732485	WC0543316
Sample Date	Client Info		<b>29 Jun 2023</b>	26 Feb 2023	26 Mar 2021
Machine Age	yrs	Client Info	<b>0</b>	0	0
Oil Age	yrs	Client Info	<b>1</b>	0	1
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Sample Status			<b>SEVERE</b>	NORMAL	ATTENTION

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>1</b>	<1	105
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>15	<b>9</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	9
Lead	ppm	ASTM D5185m	>100	<b>4</b>	0	<1
Copper	ppm	ASTM D5185m	>200	<b>442</b>	<1	94
Tin	ppm	ASTM D5185m	>25	<b>43</b>	0	6
Antimony	ppm	ASTM D5185m	>5	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	<1	36
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185m		<b>0</b>	0	360
Phosphorus	ppm	ASTM D5185m		<b>355</b>	333	302
Zinc	ppm	ASTM D5185m		<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>6098</b>	4023	3518

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>&lt;1</b>	1	2
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1

### FLUID CLEANLINESS

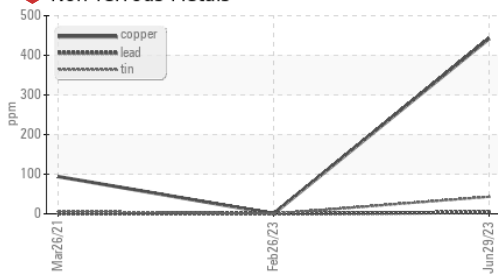
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>---</b>	1872	8980
Particles >6µm	ASTM D7647	>5000	<b>---</b>	545	4892
Particles >14µm	ASTM D7647	>640	<b>---</b>	58	833
Particles >21µm	ASTM D7647	>160	<b>---</b>	20	280
Particles >38µm	ASTM D7647	>40	<b>---</b>	1	43
Particles >71µm	ASTM D7647	>10	<b>---</b>	0	4
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>---</b>	18/16/13	20/19/17

### FLUID DEGRADATION

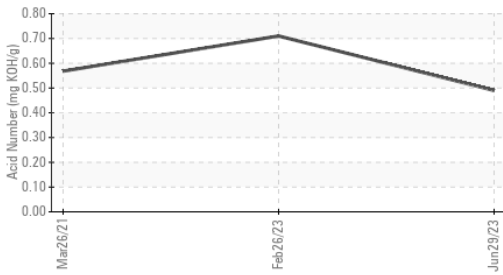
	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.49</b>	0.71	0.568

# OIL ANALYSIS REPORT

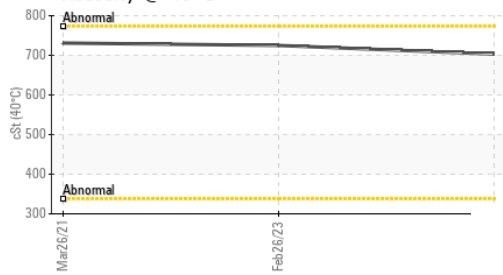
### Non-ferrous Metals



### Acid Number



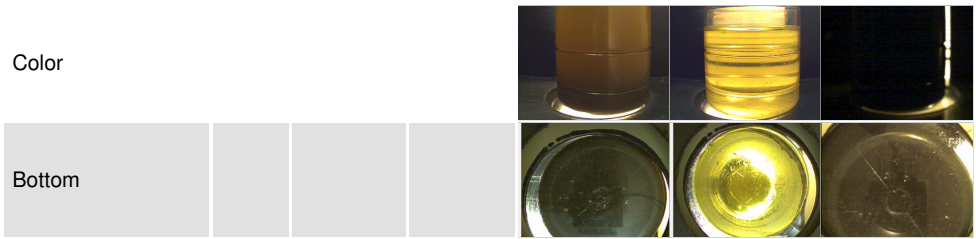
### Viscosity @ 40°C



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	▲ MODER	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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

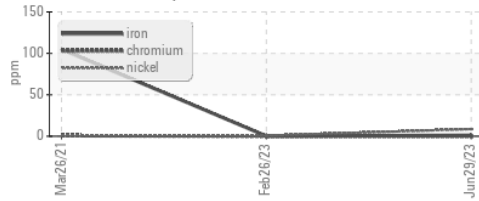
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	703	725	731

SAMPLE IMAGES	method	limit/base	current	history1	history2
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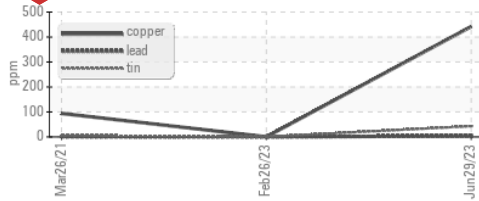


### GRAPHS

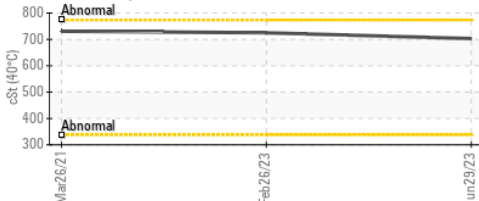
#### Ferrous Alloys



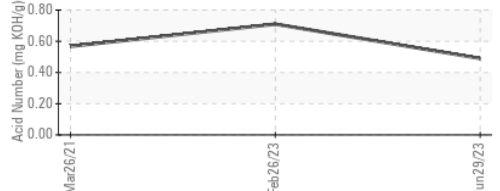
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0799726 **Received** : 18 Jul 2023  
**Lab Number** : 05901266 **Diagnosed** : 19 Jul 2023  
**Unique Number** : 10562622 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**HORMEL FOODS-BELOIT**  
 3000 KENNEDY DRIVE  
 BELOIT, WI  
 US 53511  
 Contact: Craig Bennett  
 cabennett@hormel.com  
 T:  
 F: (608)365-8322

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)