



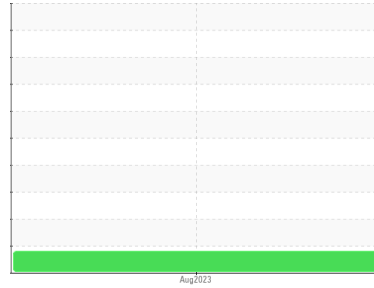
# PROBLEM SUMMARY

Sample Rating Trend

WEAR

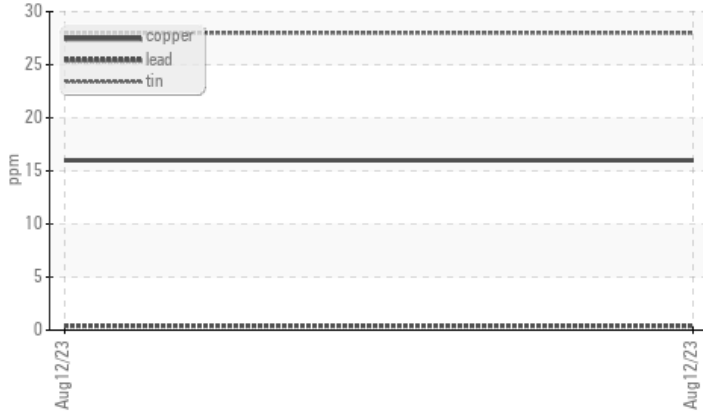


Machine Id  
**429112**  
Component  
**1 Differential**  
Fluid  
**NOT GIVEN (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: 1st Axle / Pusher )

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Tin	ppm	ASTM D5185m	>10	▲ 28	---	---

Customer Id: GFL983  
Sample No.: GFL0089390  
Lab Number: 05928488  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**429112**  
 Component  
**1 Differential**  
 Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: 1st Axle / Pusher )

### ▲ Wear

The tin level is abnormal. All other metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0089390</b>	---	---
Sample Date	Client Info	<b>12 Aug 2023</b>	---	---
Machine Age	mls	Client Info	<b>220080</b>	---
Oil Age	mls	Client Info	<b>220080</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>237</b>	---
Chromium	ppm	ASTM D5185m >10	<b>3</b>	---
Nickel	ppm	ASTM D5185m >10	<b>4</b>	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---
Silver	ppm	ASTM D5185m	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >25	<b>13</b>	---
Lead	ppm	ASTM D5185m >25	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m >100	<b>16</b>	---
Tin	ppm	ASTM D5185m >10	<b>▲ 28</b>	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>231</b>	---
Barium	ppm	ASTM D5185m	<b>3</b>	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>9</b>	---
Magnesium	ppm	ASTM D5185m	<b>3</b>	---
Calcium	ppm	ASTM D5185m	<b>30</b>	---
Phosphorus	ppm	ASTM D5185m	<b>1400</b>	---
Zinc	ppm	ASTM D5185m	<b>37</b>	---
Sulfur	ppm	ASTM D5185m	<b>27258</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>72</b>	---
Sodium	ppm	ASTM D5185m	<b>6</b>	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	---

## VISUAL

method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>MODER</b>	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---
Silt	scalar	*Visual NONE	<b>NONE</b>	---
Debris	scalar	*Visual NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	---
Odor	scalar	*Visual NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	---
Free Water	scalar	*Visual	<b>NEG</b>	---

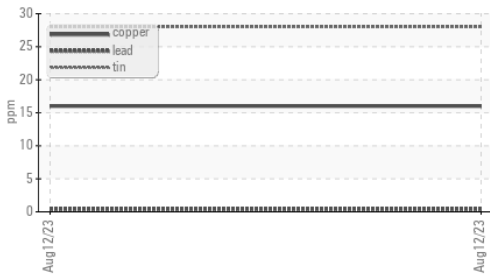
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>95.3</b>	---



# OIL ANALYSIS REPORT

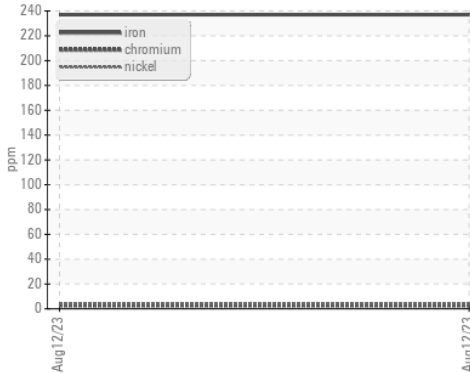
### ▲ Non-ferrous Metals



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

### GRAPHS

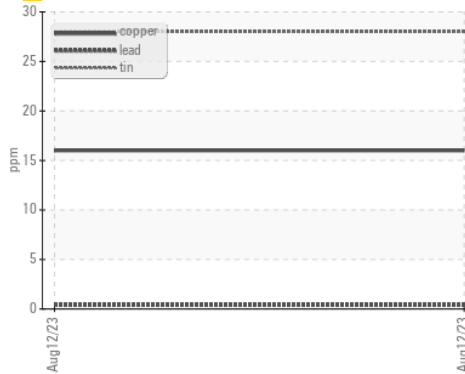
#### Ferrous Alloys



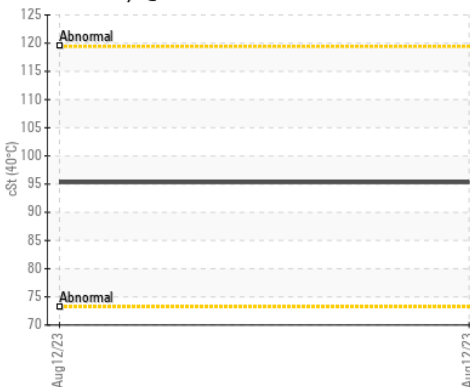
#### Viscosity @ 40°C



### ▲ Non-ferrous Metals



#### Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0089390 **Received** : 18 Aug 2023  
**Lab Number** : 05928488 **Diagnosed** : 21 Aug 2023  
**Unique Number** : 10608435 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 983 - Sugar Land Hauling**  
 16011 West Belfort Street  
 Sugar Land, TX  
 US 77498  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.com

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)

T:  
F: