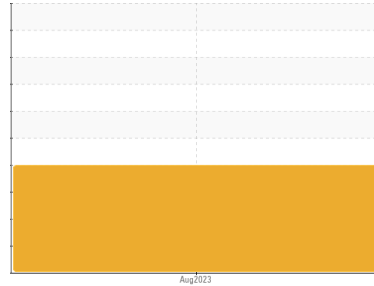




# PROBLEM SUMMARY

Sample Rating Trend



DIRT

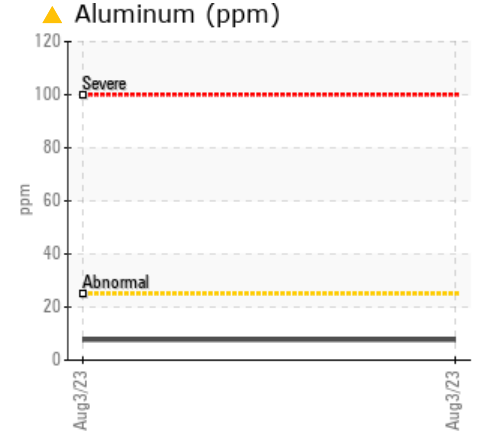
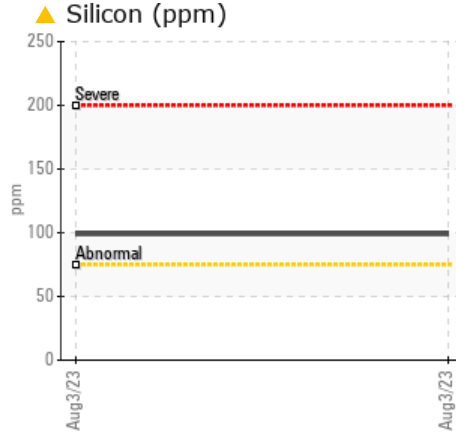
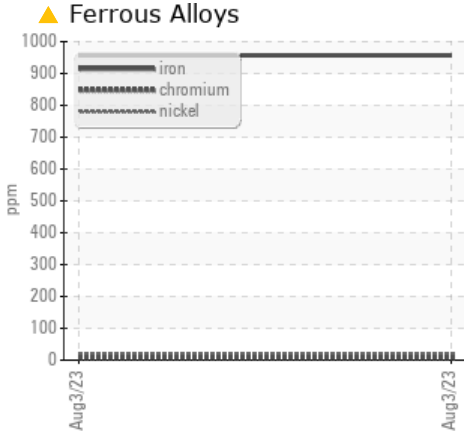


Machine Id  
**425138**

Component  
**1 Differential**

Fluid  
**GEAR OIL SAE 75W90 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: 1st Axle/ Pusher )

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	---	---
Iron ppm ASTM D5185m >500	▲ 957	---	---
Nickel ppm ASTM D5185m >10	▲ 21	---	---
Aluminum ppm ASTM D5185m >25	▲ 8	---	---
Silicon ppm ASTM D5185m >75	▲ 99	---	---

Customer Id: GFL983  
Sample No.: GFL0085503  
Lab Number: 05918929  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

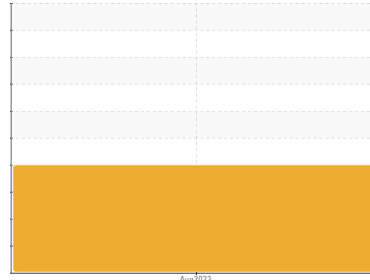
Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**425138**

Component  
**1 Differential**

Fluid  
**GEAR OIL SAE 75W90 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: 1st Axle/ Pusher )

### ▲ Wear

Gear wear is indicated.

### ▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### 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>GFL0085503</b>	---	---
Sample Date	Client Info	<b>03 Aug 2023</b>	---	---
Machine Age	mls	Client Info	<b>329182</b>	---
Oil Age	mls	Client Info	<b>0</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>▲ 957</b>	---
Chromium	ppm	ASTM D5185m >10	<b>8</b>	---
Nickel	ppm	ASTM D5185m >10	<b>▲ 21</b>	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >25	<b>▲ 8</b>	---
Lead	ppm	ASTM D5185m >25	<b>6</b>	---
Copper	ppm	ASTM D5185m >100	<b>46</b>	---
Tin	ppm	ASTM D5185m >10	<b>3</b>	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	<b>206</b>	---
Barium	ppm	ASTM D5185m 200	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185m 12	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>16</b>	---
Magnesium	ppm	ASTM D5185m 12	<b>6</b>	---
Calcium	ppm	ASTM D5185m 150	<b>30</b>	---
Phosphorus	ppm	ASTM D5185m 1650	<b>1445</b>	---
Zinc	ppm	ASTM D5185m 125	<b>118</b>	---
Sulfur	ppm	ASTM D5185m 22500	<b>28332</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>▲ 99</b>	---
Sodium	ppm	ASTM D5185m	<b>7</b>	---
Potassium	ppm	ASTM D5185m >20	<b>17</b>	---

## VISUAL

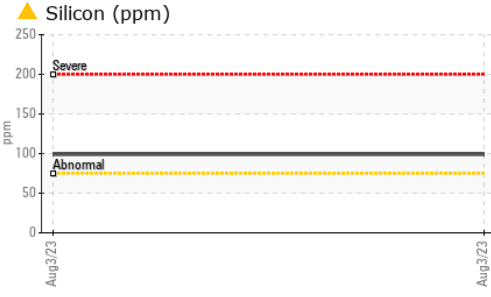
method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---
Silt	scalar	*Visual NONE	<b>LIGHT</b>	---
Debris	scalar	*Visual NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual NONE	<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

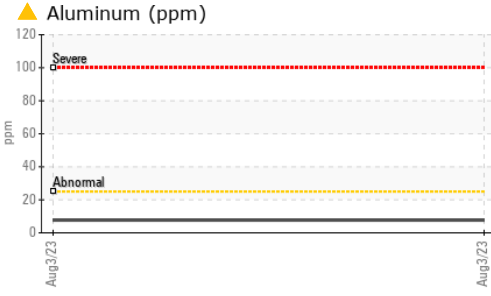
method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 109	<b>103</b>	---



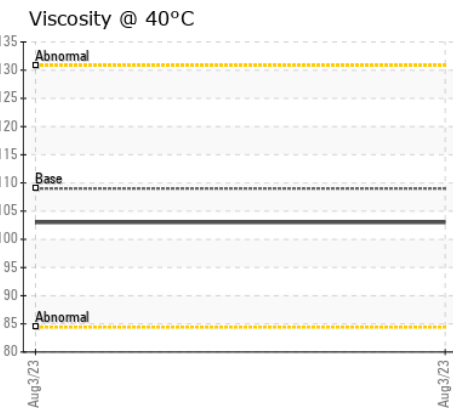
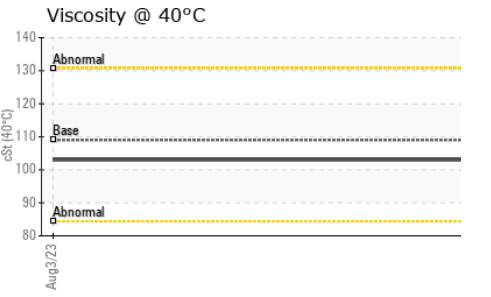
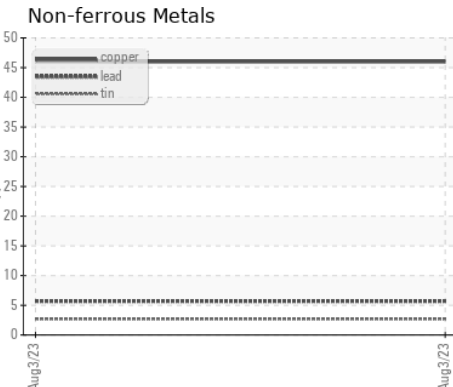
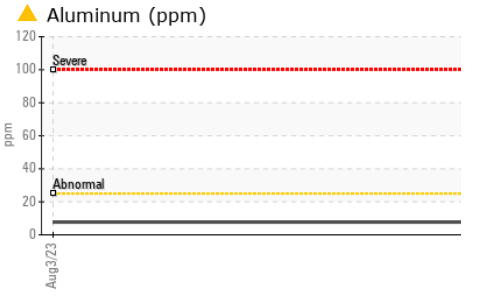
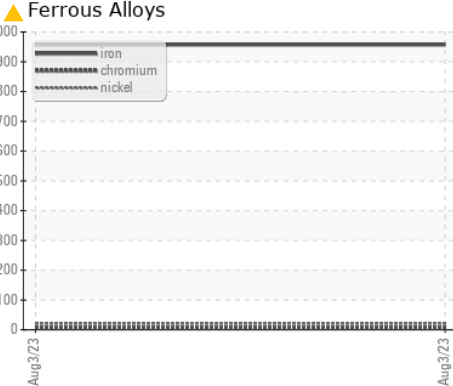
# OIL ANALYSIS REPORT



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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0085503 **Received** : 08 Aug 2023  
**Lab Number** : 05918929 **Diagnosed** : 10 Aug 2023  
**Unique Number** : 10590843 **Diagnostician** : Jonathan Hester  
**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: