

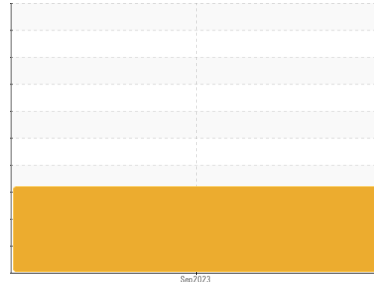


# PROBLEM SUMMARY



Machine Id  
**413069**  
 Component  
**1 Differential**  
 Fluid  
**NOT GIVEN (--- GAL)**

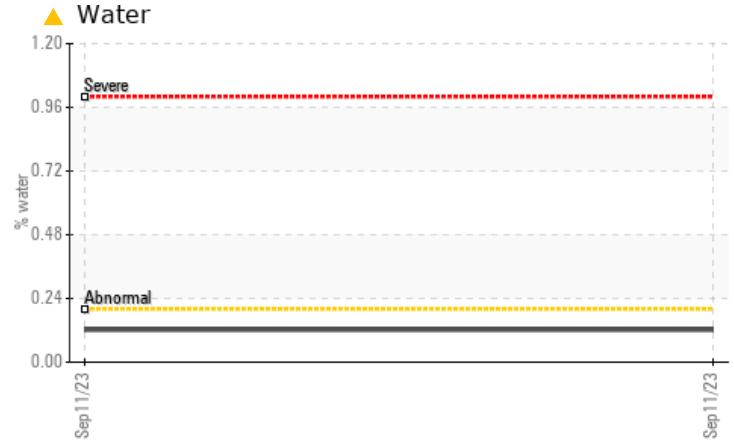
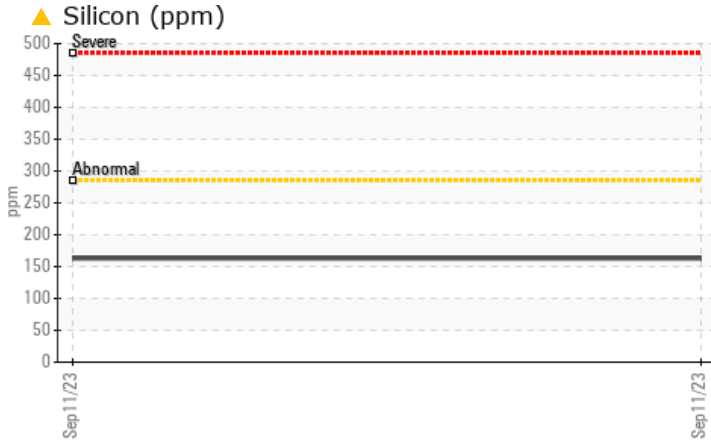
## Sample Rating Trend



**WATER**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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				<b>ABNORMAL</b>	---	---
Silicon	ppm	ASTM D5185m	>285	<b>▲ 163</b>	---	---
Water	%	ASTM D6304	>.2	<b>▲ 0.122</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 1220</b>	---	---

Customer Id: GFL983  
 Sample No.: GFL0094097  
 Lab Number: 05953070  
 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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



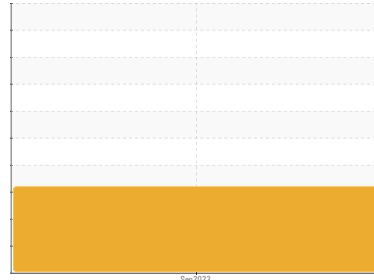
# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Machine Id  
**413069**  
Component  
**1 Differential**  
Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### Recommendation

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

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a trace of moisture present 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>GFL0094097</b>	---	---
Sample Date	Client Info	<b>11 Sep 2023</b>	---	---
Machine Age	hrs Client Info	<b>35682</b>	---	---
Oil Age	hrs Client Info	<b>35682</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 >870	<b>122</b>	---	---
Chromium ppm	ASTM D5185m >8	<b>&lt;1</b>	---	---
Nickel ppm	ASTM D5185m >25	<b>4</b>	---	---
Titanium ppm	ASTM D5185m >4	<b>0</b>	---	---
Silver ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum ppm	ASTM D5185m >40	<b>8</b>	---	---
Lead ppm	ASTM D5185m >25	<b>&lt;1</b>	---	---
Copper ppm	ASTM D5185m >60	<b>3</b>	---	---
Tin ppm	ASTM D5185m >5	<b>&lt;1</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>327</b>	---	---
Barium ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185m	<b>0</b>	---	---
Manganese ppm	ASTM D5185m	<b>4</b>	---	---
Magnesium ppm	ASTM D5185m	<b>4</b>	---	---
Calcium ppm	ASTM D5185m	<b>12</b>	---	---
Phosphorus ppm	ASTM D5185m	<b>1041</b>	---	---
Zinc ppm	ASTM D5185m	<b>3</b>	---	---
Sulfur ppm	ASTM D5185m	<b>24389</b>	---	---

## CONTAMINANTS

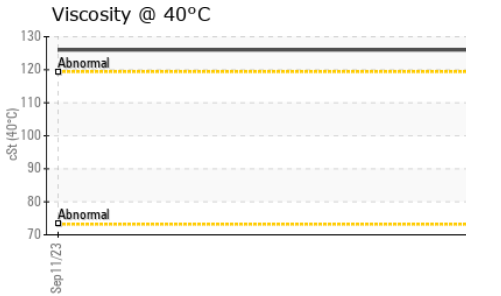
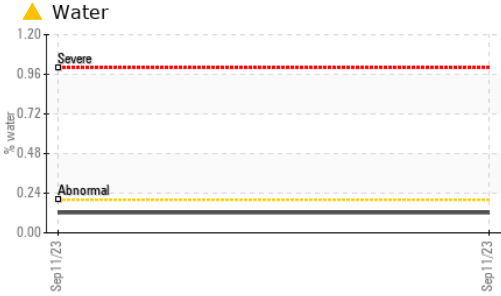
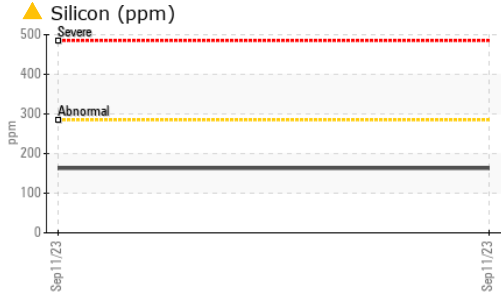
method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >285	<b>▲ 163</b>	---	---
Sodium ppm	ASTM D5185m	<b>3</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>0</b>	---	---
Water %	ASTM D6304 >.2	<b>▲ 0.122</b>	---	---
ppm Water	ASTM D6304 >2000	<b>▲ 1220</b>	---	---

## 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>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>0.2%</b>	---	---
Free Water scalar	*Visual	<b>NEG</b>	---	---



# OIL ANALYSIS REPORT

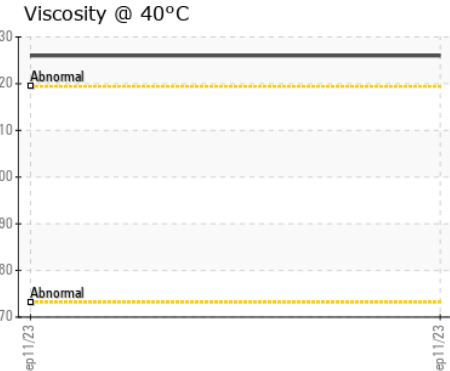
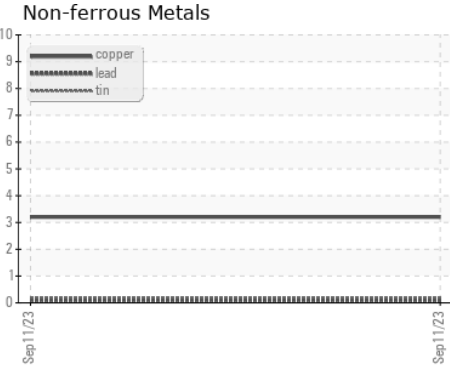
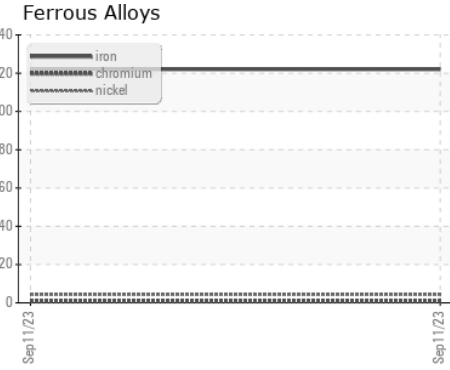


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	126	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0094097 **Received** : 15 Sep 2023  
**Lab Number** : 05953070 **Diagnosed** : 20 Sep 2023  
**Unique Number** : 10649029 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: KF )

**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: