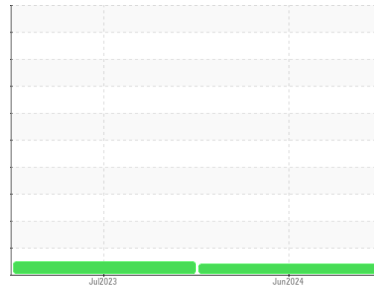




# OIL ANALYSIS REPORT

Machine Id  
**420093**  
 Component  
**1 Differential**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

## Sample Rating Trend



## VISCOSITY



### 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

There is no indication of any contamination in the oil.

#### Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0123546</b>	GFL0085449	---
Sample Date	Client Info		<b>13 Jun 2024</b>	12 Jul 2023	---
Machine Age	mls	Client Info	<b>148809</b>	112519	---
Oil Age	mls	Client Info	<b>148809</b>	112591	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ATTENTION</b>	NORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >1200	<b>460</b>	277	---
Chromium	ppm	ASTM D5185m >8	<b>3</b>	2	---
Nickel	ppm	ASTM D5185m >20	<b>6</b>	15	---
Titanium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >30	<b>19</b>	7	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>8</b>	2	---
Tin	ppm	ASTM D5185m >5	<b>3</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	<b>25</b>	82	---
Barium	ppm	ASTM D5185m 200	<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185m 12	<b>2</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>5</b>	6	---
Magnesium	ppm	ASTM D5185m 12	<b>4</b>	6	---
Calcium	ppm	ASTM D5185m 150	<b>124</b>	20	---
Phosphorus	ppm	ASTM D5185m 1650	<b>460</b>	1005	---
Zinc	ppm	ASTM D5185m 125	<b>329</b>	54	---
Sulfur	ppm	ASTM D5185m 22500	<b>3500</b>	24253	---

### CONTAMINANTS

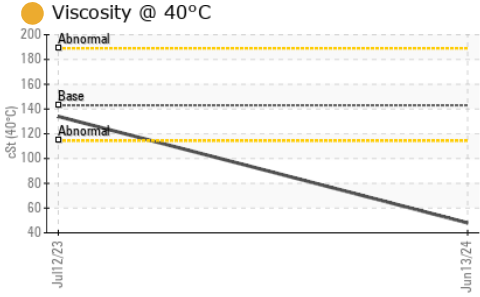
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >230	<b>50</b>	183	---
Sodium	ppm	ASTM D5185m >170	<b>0</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	3	---

### VISUAL

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



# OIL ANALYSIS REPORT



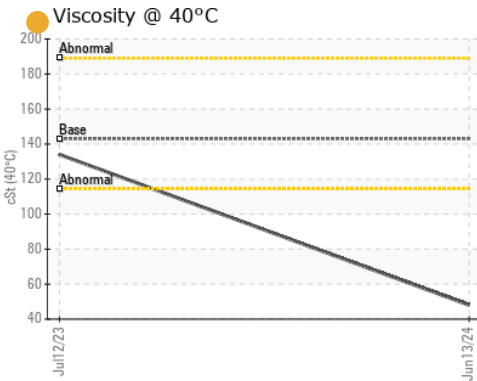
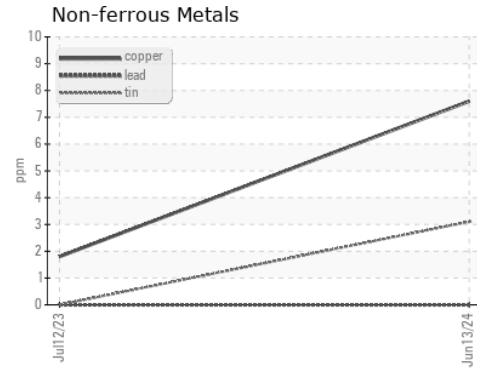
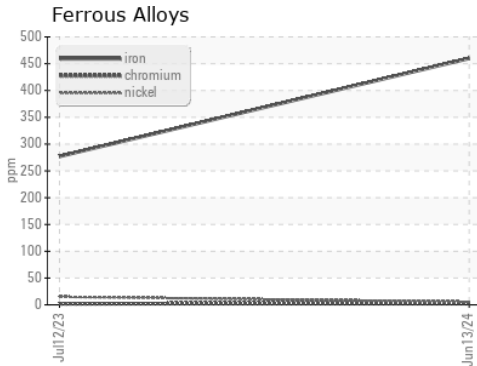
### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 143	● 48.0	134	---

### SAMPLE IMAGES

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

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123546  
**Lab Number** : 06213914  
**Unique Number** : 11086778  
**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: