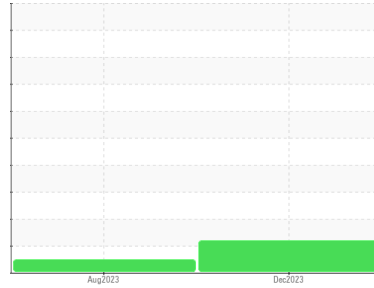




# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**



Machine Id  
**420095**  
 Component  
**2 Differential**  
 Fluid  
**GEAR OIL SAE 80W90 (--- 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: 2nd Axle / Tag )

### Wear

The nickel level is abnormal. All other 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>GFL0105538</b>	GFL0089373	---
Sample Date	Client Info		<b>19 Dec 2023</b>	10 Aug 2023	---
Machine Age	hrs	Client Info	<b>109082</b>	94721	---
Oil Age	hrs	Client Info	<b>109082</b>	94721	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</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>447</b>	132	---
Chromium	ppm	ASTM D5185m >8	<b>4</b>	<1	---
Nickel	ppm	ASTM D5185m >20	<b>▲ 30</b>	8	---
Titanium	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >30	<b>4</b>	4	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m >5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	<b>65</b>	135	---
Barium	ppm	ASTM D5185m 200	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 12	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>6</b>	3	---
Magnesium	ppm	ASTM D5185m 12	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m 150	<b>166</b>	23	---
Phosphorus	ppm	ASTM D5185m 1650	<b>736</b>	925	---
Zinc	ppm	ASTM D5185m 125	<b>77</b>	0	---
Sulfur	ppm	ASTM D5185m 22500	<b>16857</b>	22677	---

## CONTAMINANTS

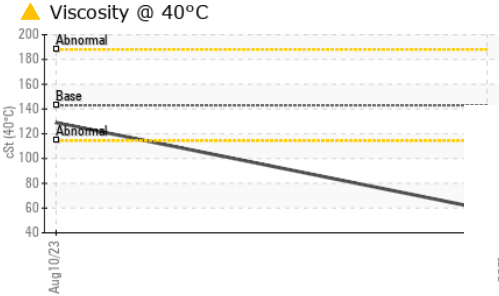
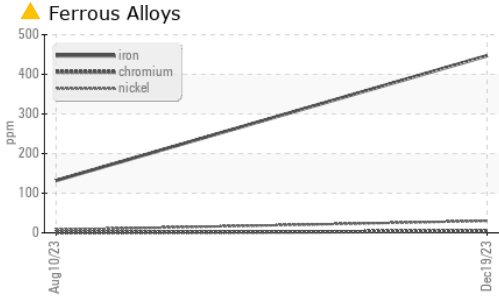
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >230	<b>117</b>	100	---
Sodium	ppm	ASTM D5185m >170	<b>5</b>	2	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	---

## 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



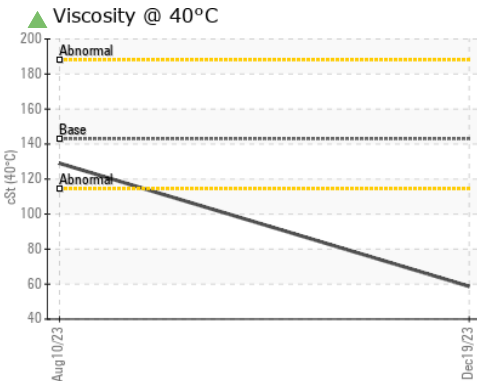
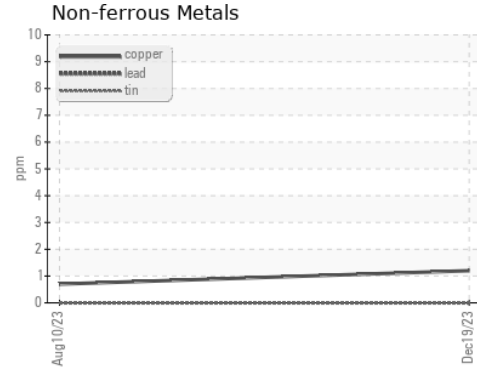
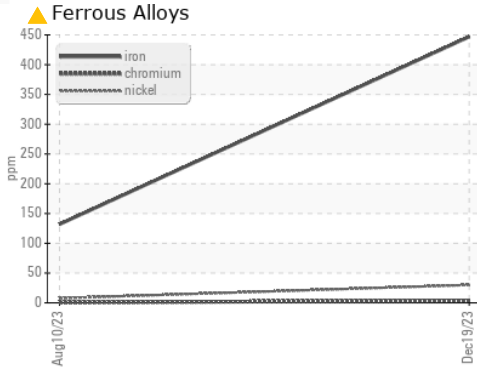
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 143	▲ 58.7	129	---

## SAMPLE IMAGES

method	limit/base	current	history1	history2
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.** : GFL0105538     **Received** : 22 Dec 2023  
**Lab Number** : 06043582     **Diagnosed** : 26 Dec 2023  
**Unique Number** : 10804190     **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: