



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**413066**  
Component  
**2 Differential**  
Fluid  
**GEAR OIL SAE 80W90 (--- 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: 2nd axle / Tag )

### Wear

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>GFL0085436</b>	---	---
Sample Date	Client Info	<b>06 Jul 2023</b>	---	---
Machine Age	mls	Client Info	<b>21532</b>	---
Oil Age	mls	Client Info	<b>21532</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >870	<b>82</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>2</b>	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	---
Copper	ppm	ASTM D5185m >60	<b>0</b>	---
Tin	ppm	ASTM D5185m >5	<b>0</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 400	<b>266</b>	---
Barium	ppm	ASTM D5185m 200	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m 12	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>2</b>	---
Magnesium	ppm	ASTM D5185m 12	<b>0</b>	---
Calcium	ppm	ASTM D5185m 150	<b>3</b>	---
Phosphorus	ppm	ASTM D5185m 1650	<b>978</b>	---
Zinc	ppm	ASTM D5185m 125	<b>0</b>	---
Sulfur	ppm	ASTM D5185m 22500	<b>23885</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >285	<b>62</b>	---
Sodium	ppm	ASTM D5185m >170	<b>5</b>	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---

## VISUAL

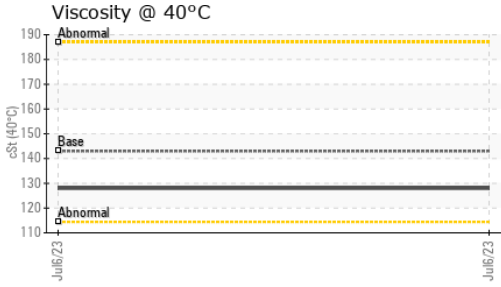
method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---
Silt	scalar	*Visual NONE	<b>NONE</b>	---
Debris	scalar	*Visual NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual NONE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

## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 143	<b>128</b>	---

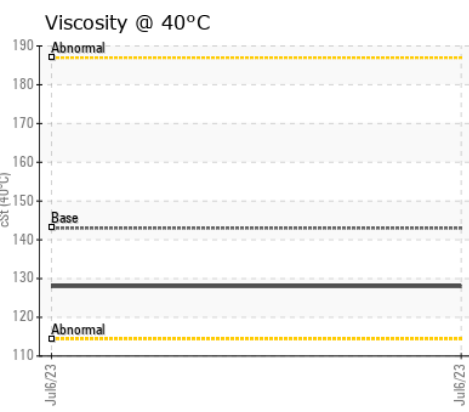
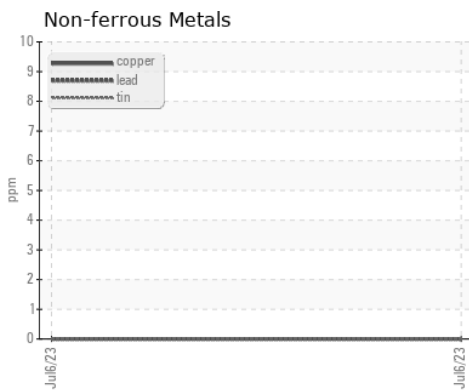
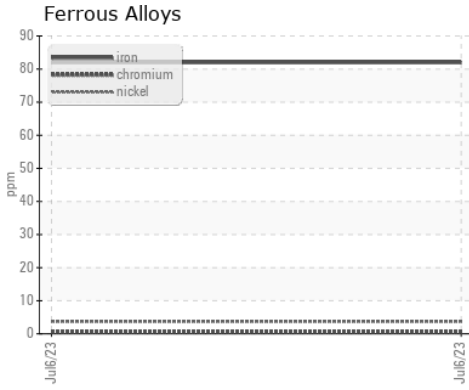


# OIL ANALYSIS REPORT



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.** : GFL0085436      **Received** : 12 Jul 2023  
**Lab Number** : 05896494      **Diagnosed** : 13 Jul 2023  
**Unique Number** : 10552304      **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)