



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**413065**  
Component  
**2 Differential**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 2nd Axle / Tag )

### Wear

All component wear rates are normal.

### 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>GFL0094112</b>	---	---
Sample Date	Client Info	<b>02 Nov 2023</b>	---	---
Machine Age	hrs Client Info	<b>32486</b>	---	---
Oil Age	hrs Client Info	<b>32486</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>81</b>	---	---
Chromium ppm ASTM D5185m	>8	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m	>25	<b>3</b>	---	---
Titanium ppm ASTM D5185m	>4	<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>40	<b>&lt;1</b>	---	---
Lead ppm ASTM D5185m	>25	<b>0</b>	---	---
Copper ppm ASTM D5185m	>60	<b>&lt;1</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>259</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>&lt;1</b>	---	---
Calcium ppm ASTM D5185m	150	<b>9</b>	---	---
Phosphorus ppm ASTM D5185m	1650	<b>895</b>	---	---
Zinc ppm ASTM D5185m	125	<b>7</b>	---	---
Sulfur ppm ASTM D5185m	22500	<b>19605</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>285	<b>53</b>	---	---
Sodium ppm ASTM D5185m	>170	<b>4</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---

## VISUAL

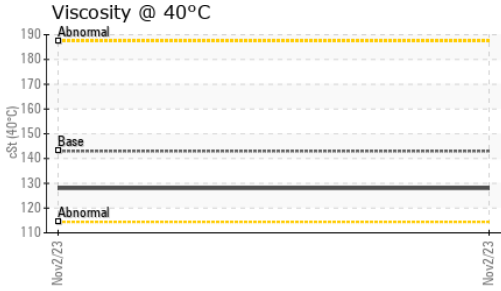
method	limit/base	current	history1	history2
White Metal scalar *Visual	NONE	<b>NONE</b>	---	---
Yellow Metal scalar *Visual	NONE	<b>NONE</b>	---	---
Precipitate scalar *Visual	NONE	<b>NONE</b>	---	---
Silt scalar *Visual	NONE	<b>NONE</b>	---	---
Debris scalar *Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt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

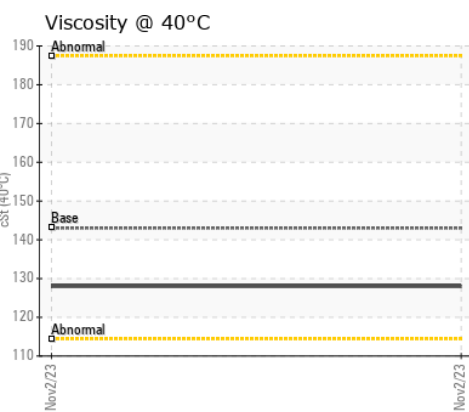
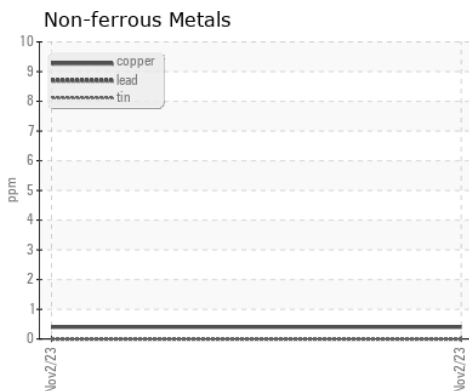
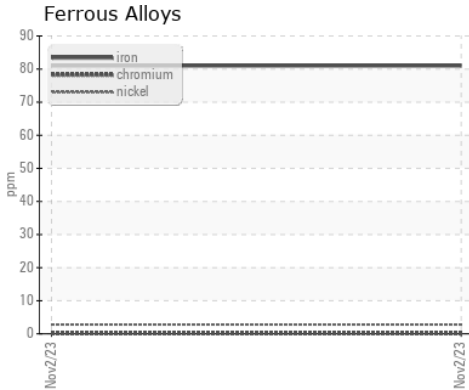


# OIL ANALYSIS REPORT



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.** : GFL0094112      **Received** : 07 Nov 2023  
**Lab Number** : 06000759      **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10729119      **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)