



# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id

**927088**

Component

**Front Differential**

Fluid

**GEAR OIL SAE 75W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### 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>GFL0114436</b>	---	---
Sample Date	Client Info	<b>03 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>3205</b>	---
Oil Age	hrs	Client Info	<b>3205</b>	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>308</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m	>100	<b>183</b>	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	400	<b>186</b>	---
Barium	ppm	ASTM D5185m	200	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>10</b>	---
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	---
Calcium	ppm	ASTM D5185m	150	<b>35</b>	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1274</b>	---
Zinc	ppm	ASTM D5185m	125	<b>30</b>	---
Sulfur	ppm	ASTM D5185m	22500	<b>25387</b>	---

## CONTAMINANTS

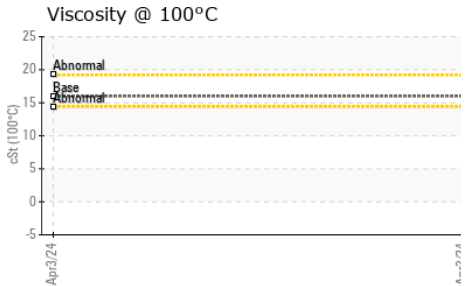
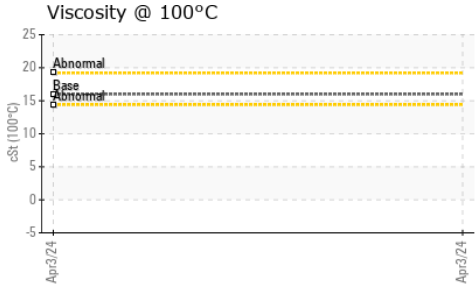
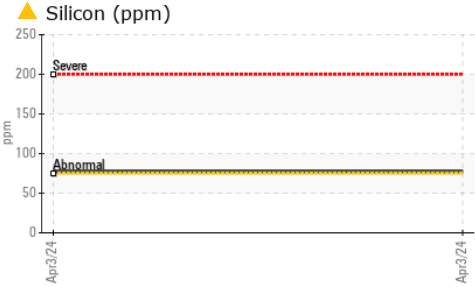
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	<b>▲ 77</b>	---
Sodium	ppm	ASTM D5185m		<b>3</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---

## 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>	---



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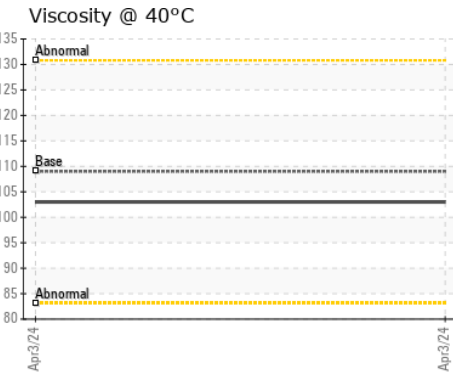
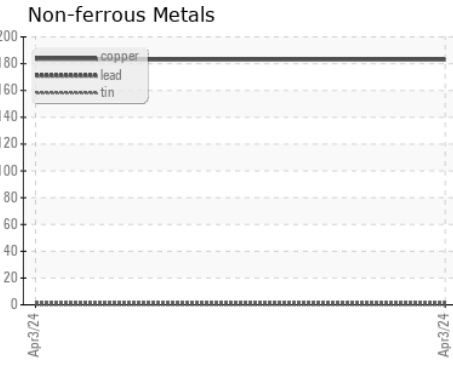
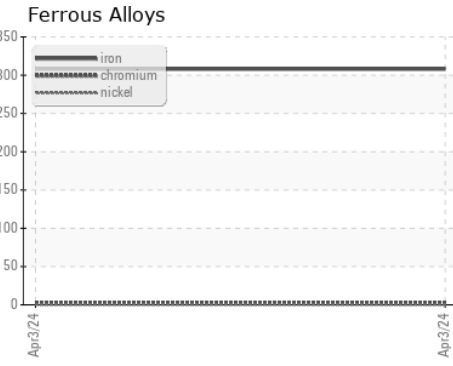
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	109	<b>103</b>	---

### 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.** : GFL0114436      **Received** : 09 Apr 2024  
**Lab Number** : **06143757**      **Tested** : 12 Apr 2024  
**Unique Number** : 10968565      **Diagnosed** : 12 Apr 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: KV100 )

**GFL Environmental - 865 - East Mount Hauling**  
 7213 East Mount Houston Road  
 Houston, TX  
 US 77050  
 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)