



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

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: 1st Axle / Pusher )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0128718</b>	GFL0123546	GFL0085449
Sample Date		Client Info		<b>10 Jul 2024</b>	13 Jun 2024	12 Jul 2023
Machine Age	mls	Client Info		<b>148809</b>	148809	112519
Oil Age	mls	Client Info		<b>148809</b>	148809	112591
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ATTENTION	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>193</b>	460	277
Chromium	ppm	ASTM D5185m	>8	<b>1</b>	3	2
Nickel	ppm	ASTM D5185m	>20	<b>18</b>	6	15
Titanium	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	19	7
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	8	2
Tin	ppm	ASTM D5185m	>5	<b>0</b>	3	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

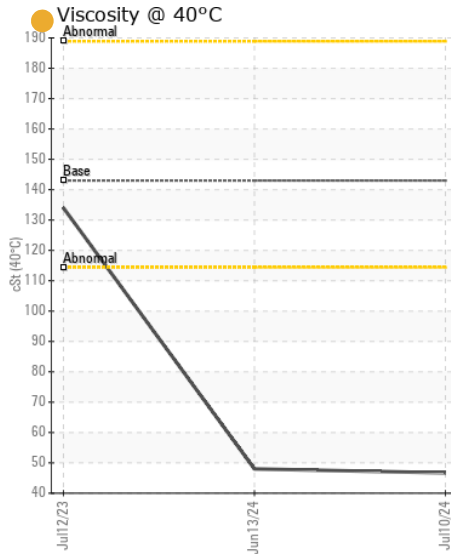
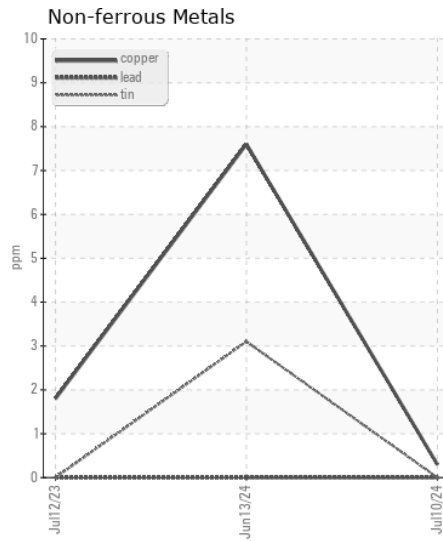
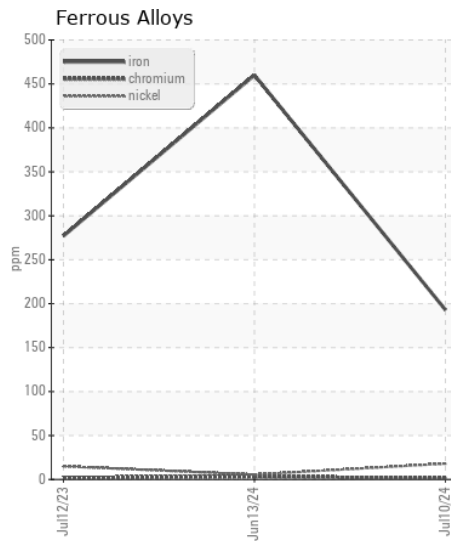
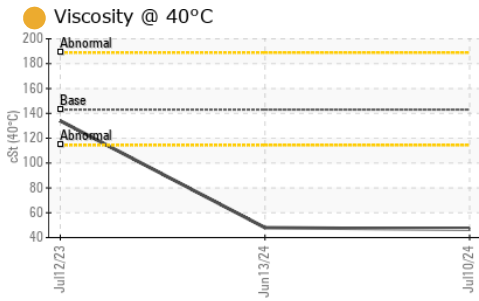
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>230	<b>70</b>	50	183
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	3
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>170	<b>3</b>	0	6
Boron	ppm	ASTM D5185m	400	<b>28</b>	25	82
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	2	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	5	6
Magnesium	ppm	ASTM D5185m	12	<b>1</b>	4	6
Calcium	ppm	ASTM D5185m	150	<b>24</b>	124	20
Phosphorus	ppm	ASTM D5185m	1650	<b>533</b>	460	1005
Zinc	ppm	ASTM D5185m	125	<b>53</b>	329	54
Sulfur	ppm	ASTM D5185m	22500	<b>17013</b>	3500	24253
Visc @ 40°C	cSt	ASTM D445	143	<b>46.7</b>	48.0	134



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0128718  
**Lab Number** : 06238249  
**Unique Number** : 11127083  
**Test Package** : FLEET

**Received** : 16 Jul 2024  
**Tested** : 17 Jul 2024  
**Diagnosed** : 18 Jul 2024 - Sean Felton

**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: