



Machine Id  
**427180**  
 Component  
**2 Differential**  
 Fluid  
**GEAR OIL SAE 80 (--- GAL)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. 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**

Gear wear is indicated.

**CONTAMINATION**

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

**FLUID CONDITION**

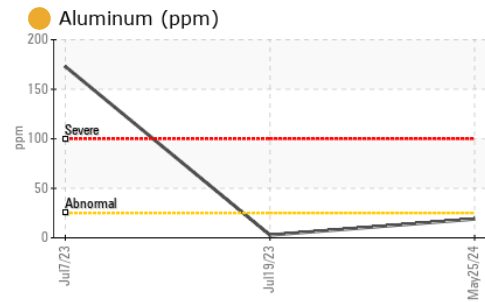
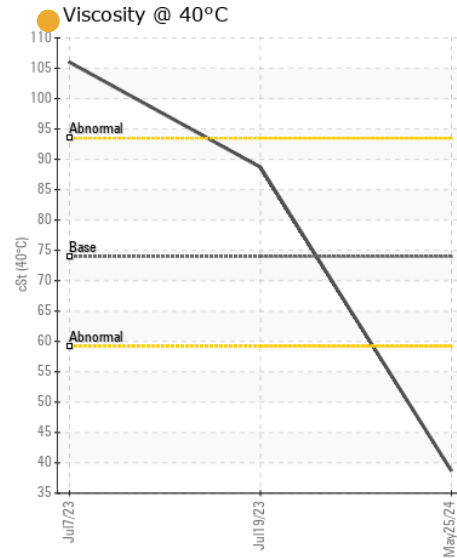
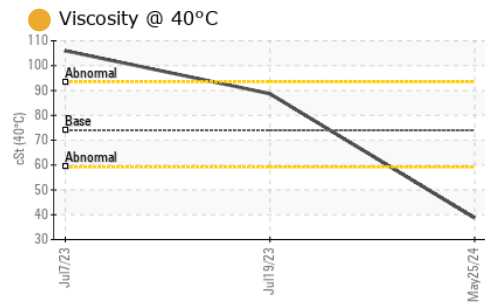
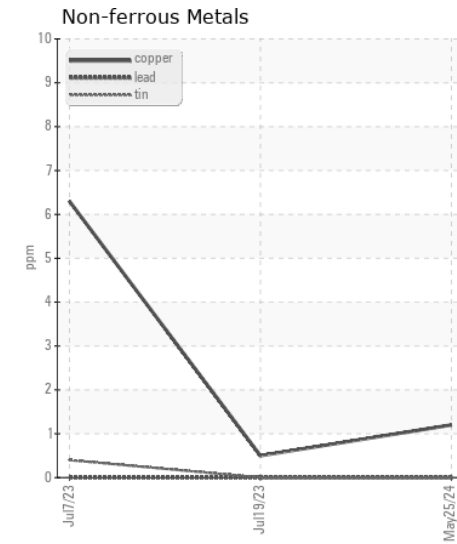
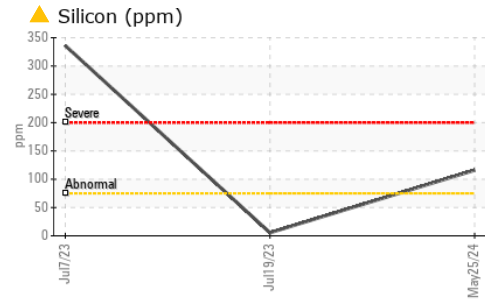
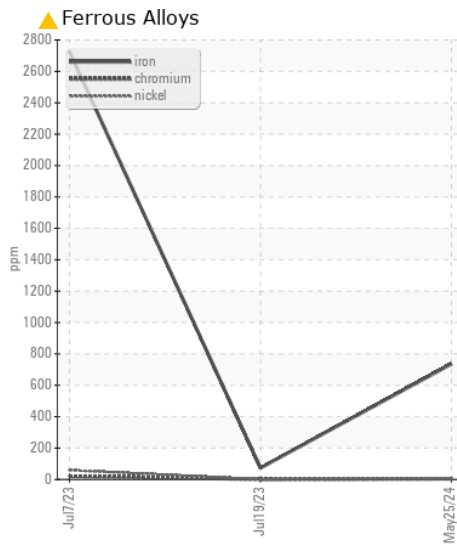
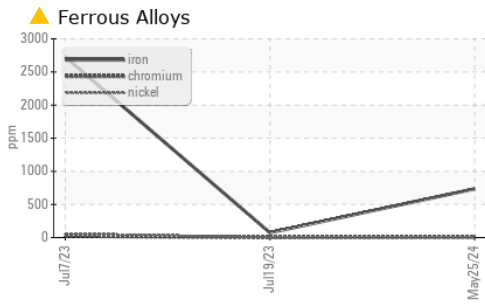
The oil viscosity is lower than normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0123566</b>	GFL0089409	GFL0085470
Sample Date		Client Info		<b>25 May 2024</b>	19 Jul 2023	07 Jul 2023
Machine Age	mls	Client Info		<b>372186</b>	340882	339095
Oil Age	mls	Client Info		<b>372186</b>	340882	339095
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Oil Added	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	SEVERE

Iron	ppm	ASTM D5185m	>500	<b>▲ 736</b>	73	▲ 2726
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	<1	▲ 21
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	1	▲ 59
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	3
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>● 19</b>	3	● 173
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>1</b>	<1	6
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	<b>▲ 116</b>	6	▲ 336
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	19
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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

Sodium	ppm	ASTM D5185m		<b>2</b>	0	11
Boron	ppm	ASTM D5185m	400	<b>13</b>	17	149
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	4
Manganese	ppm	ASTM D5185m		<b>8</b>	1	29
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	<1	12
Calcium	ppm	ASTM D5185m	150	<b>53</b>	34	130
Phosphorus	ppm	ASTM D5185m	1650	<b>482</b>	440	1209
Zinc	ppm	ASTM D5185m	125	<b>43</b>	37	56
Sulfur	ppm	ASTM D5185m	22500	<b>13274</b>	13220	24210
Visc @ 40°C	cSt	ASTM D445	74	<b>● 38.7</b>	88.7	106



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123566  
**Lab Number** : 06197132  
**Unique Number** : 11059255  
**Test Package** : FLEET

**Received** : 31 May 2024  
**Tested** : 03 Jun 2024  
**Diagnosed** : 04 Jun 2024 - Don Baldrige

**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: