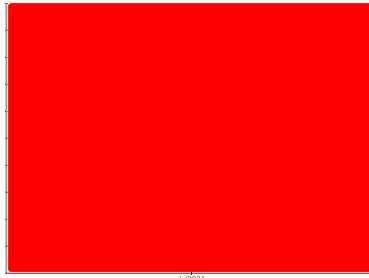




PROBLEM SUMMARY

Sample Rating Trend

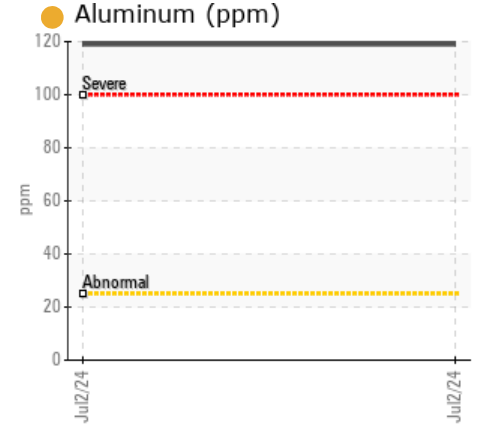
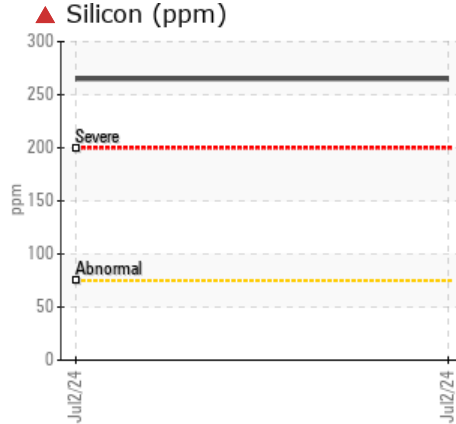
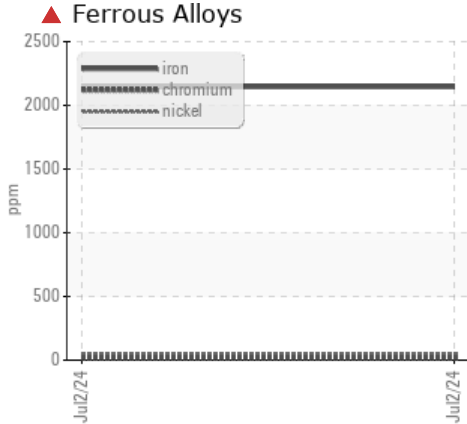


WEAR



Machine Id
427161
Component
2 Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Iron	▲ 2145	---	---
Chromium	▲ 17	---	---
Nickel	▲ 52	---	---
Silicon	▲ 265	---	---

Customer Id: GFL977
Sample No.: GFL0066534
Lab Number: 06230576
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

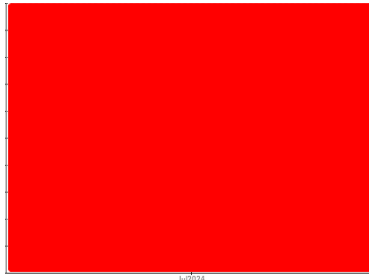
Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

427161

Component

2 Differential

Fluid

GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Gear wear is indicated.

▲ Contamination

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

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0066534	---	---
Sample Date	Client Info		02 Jul 2024	---	---
Machine Age	hrs	Client Info	387233	---	---
Oil Age	hrs	Client Info	387233	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ 2145	---
Chromium	ppm	ASTM D5185m	>10	▲ 17	---
Nickel	ppm	ASTM D5185m	>10	▲ 52	---
Titanium	ppm	ASTM D5185m		2	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	● 119	---
Lead	ppm	ASTM D5185m	>25	<1	---
Copper	ppm	ASTM D5185m	>100	6	---
Tin	ppm	ASTM D5185m	>10	<1	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	181	---
Barium	ppm	ASTM D5185m	200	0	---
Molybdenum	ppm	ASTM D5185m	12	2	---
Manganese	ppm	ASTM D5185m		24	---
Magnesium	ppm	ASTM D5185m	12	10	---
Calcium	ppm	ASTM D5185m	150	92	---
Phosphorus	ppm	ASTM D5185m	1650	1468	---
Zinc	ppm	ASTM D5185m	125	48	---
Sulfur	ppm	ASTM D5185m	22500	27229	---

CONTAMINANTS

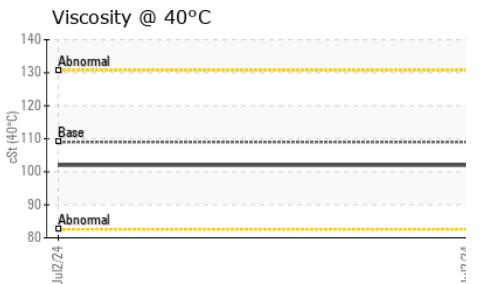
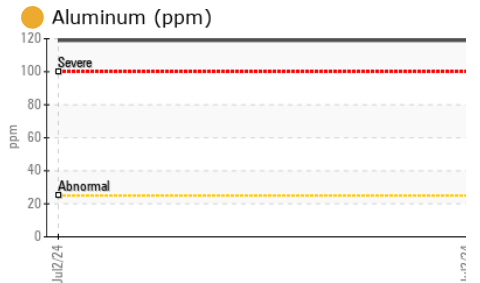
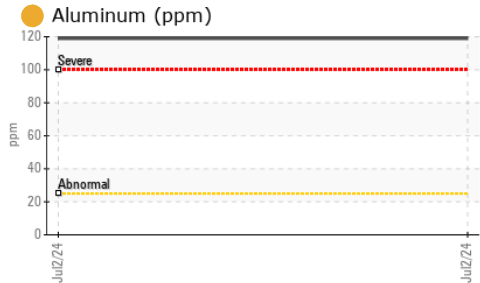
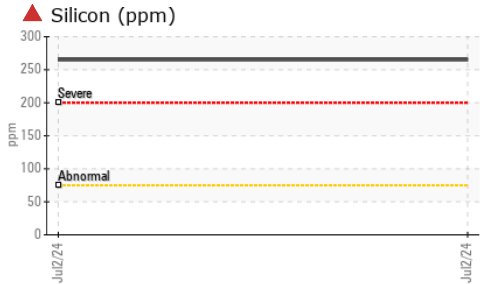
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 265	---
Sodium	ppm	ASTM D5185m		11	---
Potassium	ppm	ASTM D5185m	>20	28	---

VISUAL

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



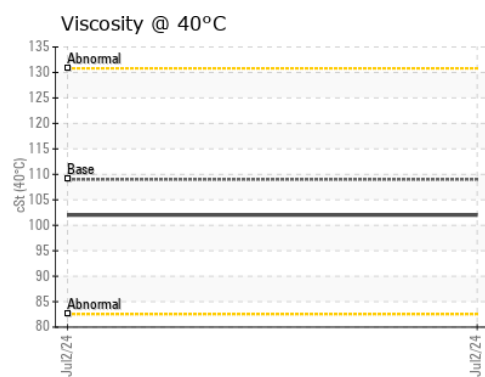
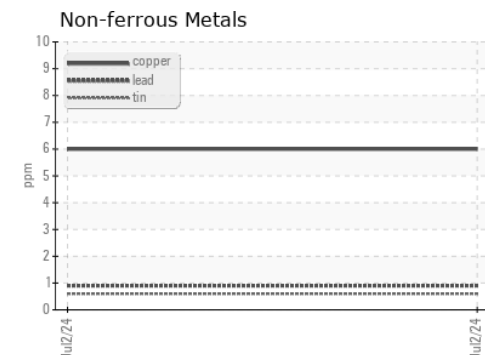
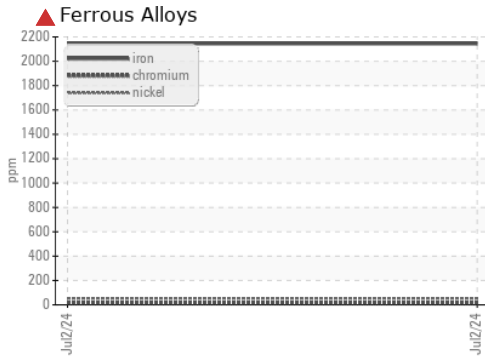
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 109	102	---	---

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. : GFL0066534
Lab Number : 06230576
Unique Number : 11114069
Test Package : FLEET

Received : 08 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Sean Felton

GFL Environmental - 977 - Montgomery Hauling
 17851 Highway 105 E
 Conroe, TX
 US 77306

Contact: Erik Bazaldua
 ebazaldua@gflenv.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: