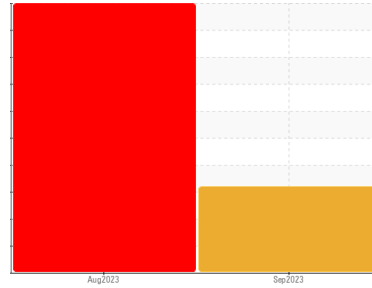




PROBLEM SUMMARY

Sample Rating Trend

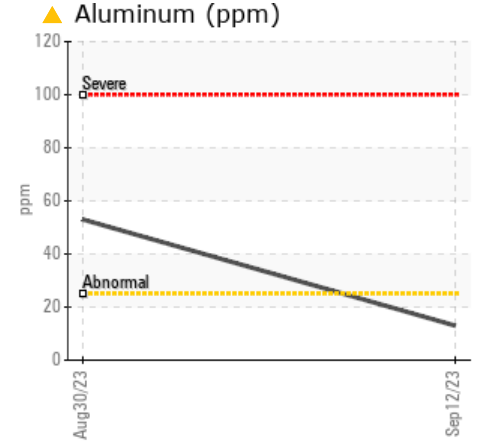
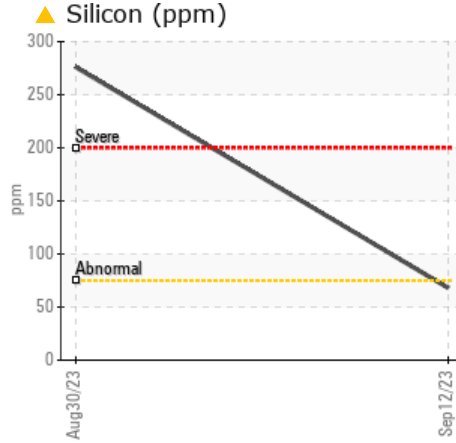
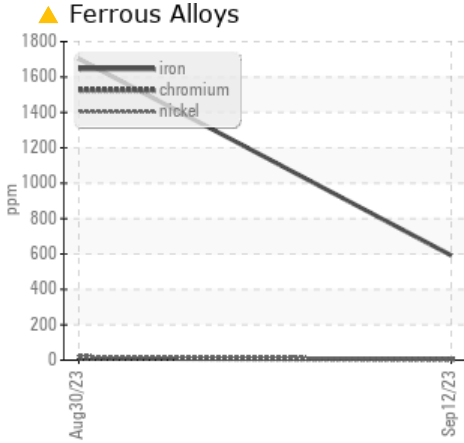


DIRT



Machine Id
427181
 Component
1 Differential
 Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



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. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: 1st Axle / Pusher **Resample**)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	---
Iron	ppm	ASTM D5185m	>500	▲ 592	● 1703	---
Aluminum	ppm	ASTM D5185m	>25	▲ 13	▲ 53	---
Silicon	ppm	ASTM D5185m	>75	▲ 68	● 276	---

Customer Id: GFL983
 Sample No.: GFL0094099
 Lab Number: 05956087
 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
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

30 Aug 2023 Diag: Doug Bogart

WEAR



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

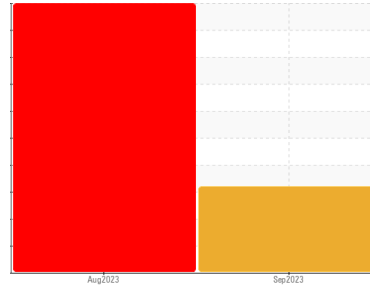
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
427181
 Component
1 Differential
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

▲ 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. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: 1st Axle / Pusher **Resample**)

▲ Wear

Gear wear is indicated.

▲ Contamination

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

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		GFL0094099	GFL0089407	---
Sample Date	Client Info		12 Sep 2023	30 Aug 2023	---
Machine Age	mls	Client Info	370415	370415	---
Oil Age	mls	Client Info	370415	370415	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 592	1703	---
Chromium	ppm	ASTM D5185m >10	5	▲ 10	---
Nickel	ppm	ASTM D5185m >10	7	22	---
Titanium	ppm	ASTM D5185m	<1	1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	▲ 13	▲ 53	---
Lead	ppm	ASTM D5185m >25	<1	<1	---
Copper	ppm	ASTM D5185m >100	6	18	---
Tin	ppm	ASTM D5185m >10	8	▲ 23	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	29	97	---
Barium	ppm	ASTM D5185m	0	3	---
Molybdenum	ppm	ASTM D5185m	<1	2	---
Manganese	ppm	ASTM D5185m	6	18	---
Magnesium	ppm	ASTM D5185m	2	12	---
Calcium	ppm	ASTM D5185m	12	93	---
Phosphorus	ppm	ASTM D5185m	646	954	---
Zinc	ppm	ASTM D5185m	8	40	---
Sulfur	ppm	ASTM D5185m	25263	23551	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 68	276	---
Sodium	ppm	ASTM D5185m	2	9	---
Potassium	ppm	ASTM D5185m >20	2	10	---

VISUAL

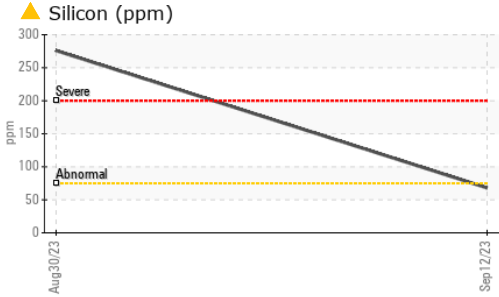
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	LIGHT	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE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

FLUID PROPERTIES

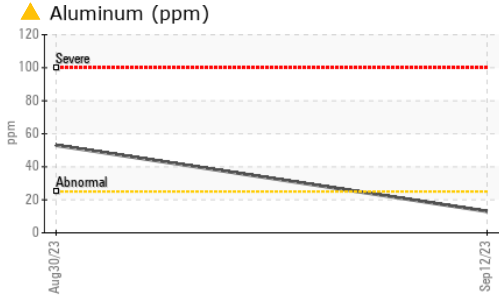
	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	71.7	108	---



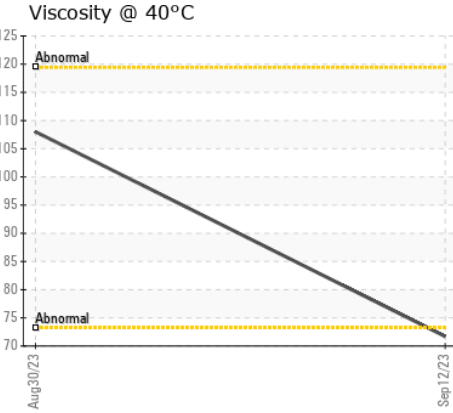
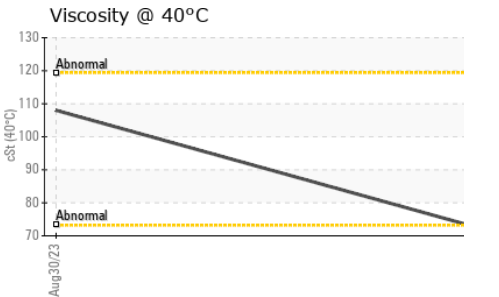
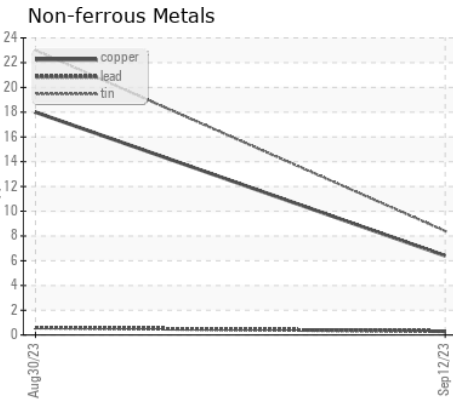
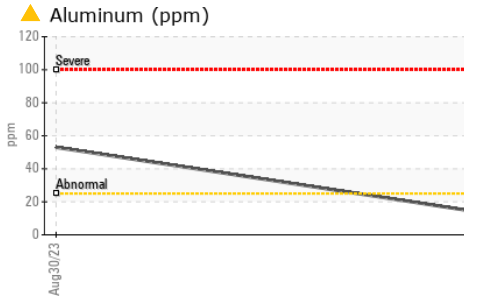
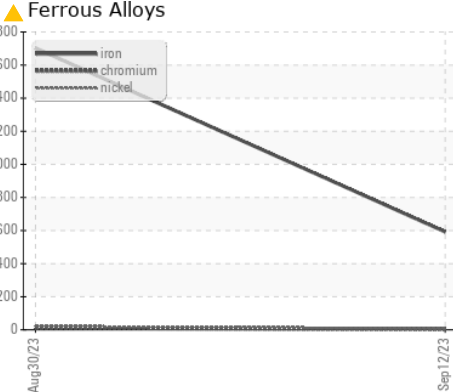
OIL ANALYSIS REPORT



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. : GFL0094099 **Received** : 19 Sep 2023
Lab Number : 05956087 **Diagnosed** : 21 Sep 2023
Unique Number : 10657300 **Diagnostician** : Sean Felton
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)

T:
F: