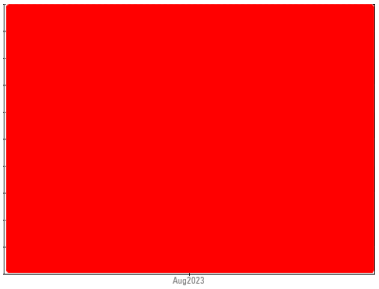
PROBLEM SUMMARY

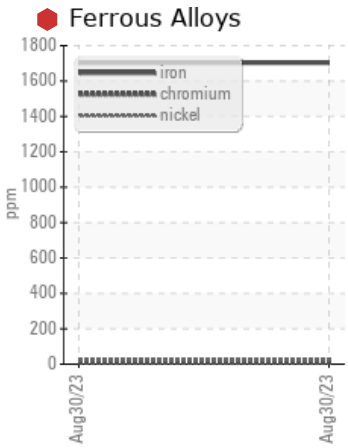
Sample Rating Trend

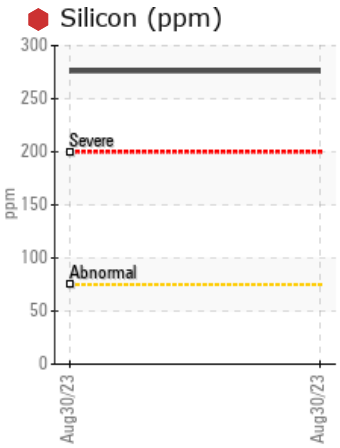


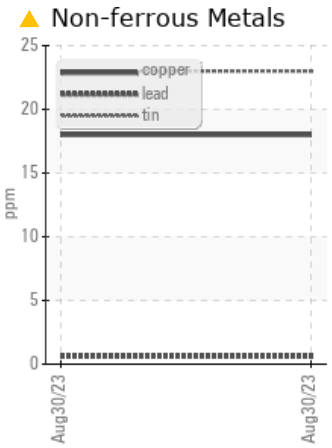
WEAR

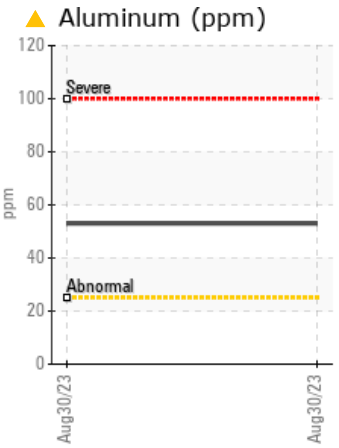
Machine Id
427181
Component
1 Differential
Fluid
NOT GIVEN (--- GAL)

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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: 1st Axle / Pusher)

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Iron	ppm	ASTM D5185m	>500	**1703**	---	---
Chromium	ppm	ASTM D5185m	>10	**10**	---	---
Nickel	ppm	ASTM D5185m	>10	**22**	---	---
Aluminum	ppm	ASTM D5185m	>25	**53**	---	---
Tin	ppm	ASTM D5185m	>10	**23**	---	---
Silicon	ppm	ASTM D5185m	>75	**276**	---	---

Customer Id: GFL983
Sample No.: GFL0089407
Lab Number: 05943998
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

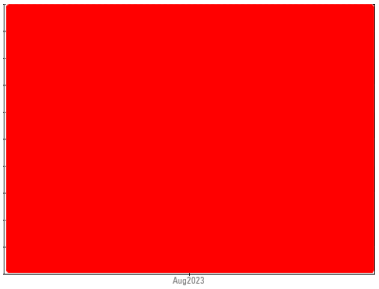
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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
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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: 1st Axle / Pusher)

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		**GFL0089407**	---	---
Sample Date		Client Info		**30 Aug 2023**	---	---
Machine Age	mls	Client Info		**370415**	---	---
Oil Age	mls	Client Info		**370415**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**SEVERE**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**1703**	---	---
Chromium	ppm	ASTM D5185m	>10	**10**	---	---
Nickel	ppm	ASTM D5185m	>10	**22**	---	---
Titanium	ppm	ASTM D5185m		**1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**53**	---	---
Lead	ppm	ASTM D5185m	>25	**<1**	---	---
Copper	ppm	ASTM D5185m	>100	**18**	---	---
Tin	ppm	ASTM D5185m	>10	**23**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**97**	---	---
Barium	ppm	ASTM D5185m		**3**	---	---
Molybdenum	ppm	ASTM D5185m		**2**	---	---
Manganese	ppm	ASTM D5185m		**18**	---	---
Magnesium	ppm	ASTM D5185m		**12**	---	---
Calcium	ppm	ASTM D5185m		**93**	---	---
Phosphorus	ppm	ASTM D5185m		**954**	---	---
Zinc	ppm	ASTM D5185m		**40**	---	---
Sulfur	ppm	ASTM D5185m		**23551**	---	---

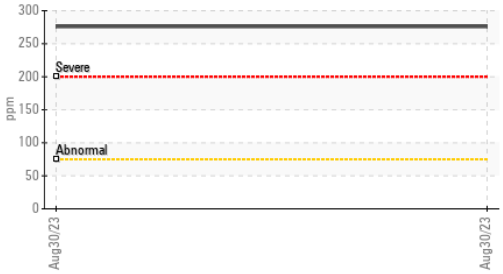
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**276**	---	---
Sodium	ppm	ASTM D5185m		**9**	---	---
Potassium	ppm	ASTM D5185m	>20	**10**	---	---

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**	---	---

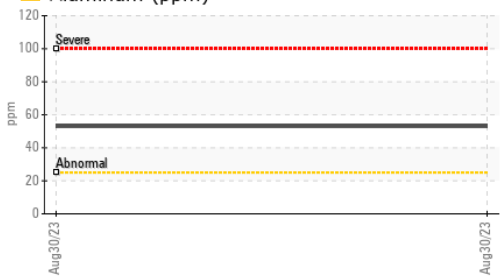
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**108**	---	---

OIL ANALYSIS REPORT

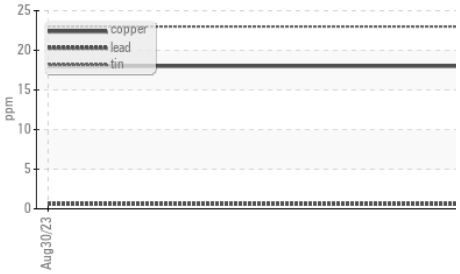
Silicon (ppm)



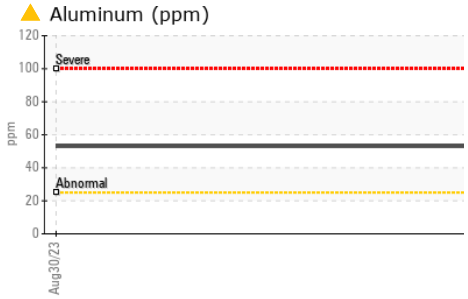
Aluminum (ppm)



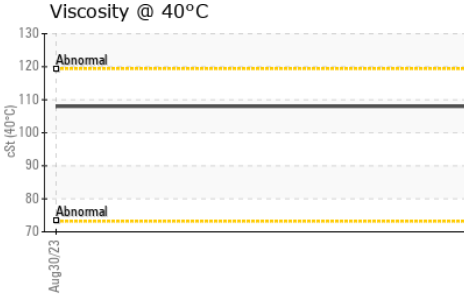
Non-ferrous Metals



Aluminum (ppm)



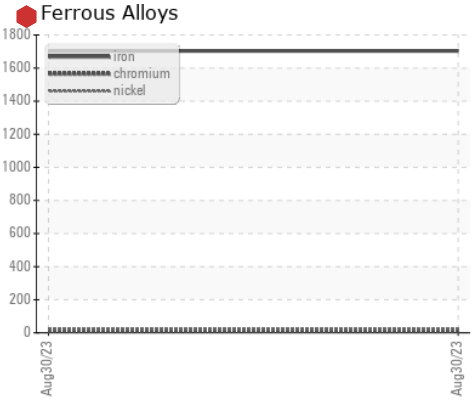
Viscosity @ 40°C



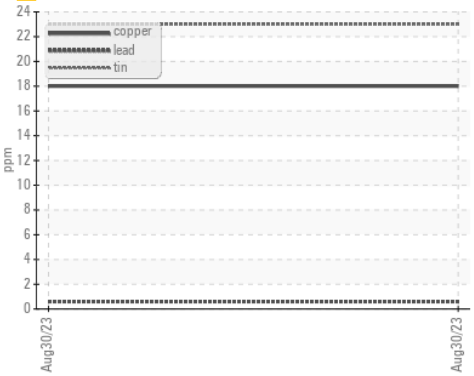
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

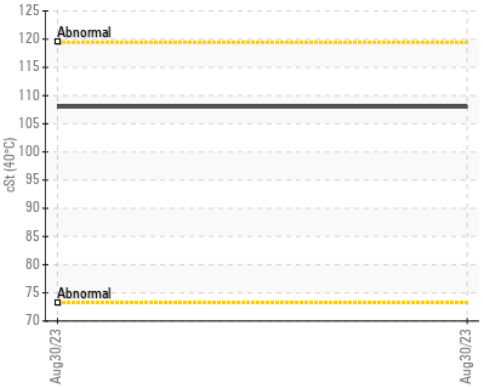
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: GFL0089407	**Received**	: 06 Sep 2023
Lab Number	: 05943998	**Diagnosed**	: 08 Sep 2023
Unique Number	: 10634610	**Diagnostician**	: Doug Bogart
Test Package	: FLEET		

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)

GFL Environmental - 983 - Sugar Land Hauling
16011 West Belfort Street
Sugar Land, TX
US 77498
Contact: TECHNICIAN ACCOUNT
wcgfldemo@gmail.com
T:
F:

Report Id: GFL983 [WUSCAR] 05943998 (Generated: 09/08/2023 21:17:56) Rev: 1

Submitted By: TECHNICIAN ACCOUNT