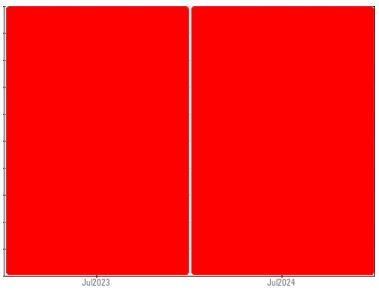
PROBLEM SUMMARY

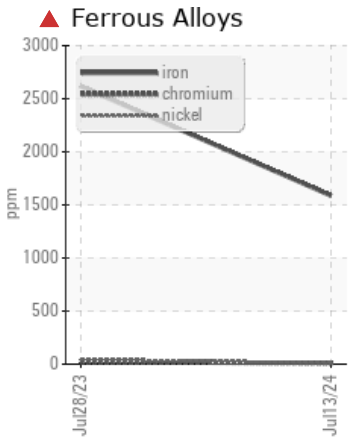
Sample Rating Trend

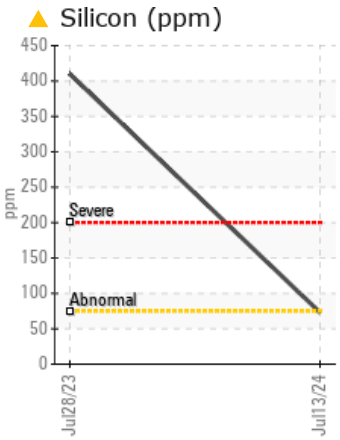


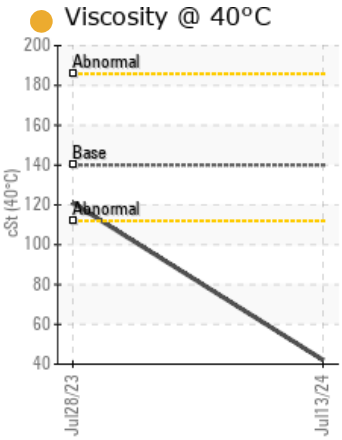
WEAR

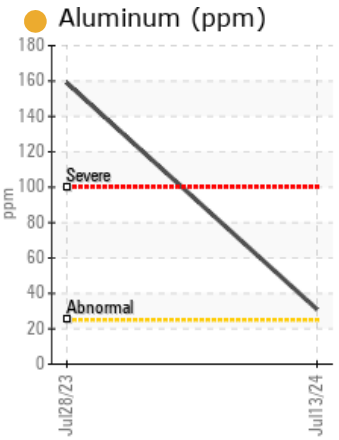
Machine Id
427192
Component
2 Differential
Fluid
GEAR OIL LS 80W90 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: 2nd Axle / Tag)

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Iron	ppm	ASTM D5185m	>500	▲ **1587**	▲ 2618	---
Chromium	ppm	ASTM D5185m	>10	▲ **10**	▲ 19	---
Nickel	ppm	ASTM D5185m	>10	▲ **10**	▲ 45	---
Silicon	ppm	ASTM D5185m	>75	▲ **73**	▲ 410	---

Customer Id: GFL983
Sample No.: GFL0128776
Lab Number: 06240768
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

WEAR

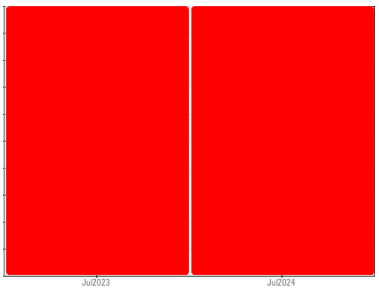
28 Jul 2023 Diag: Don Baldridge

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



WEAR

Machine Id
427192
Component
2 Differential
Fluid
GEAR OIL LS 80W90 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (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. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0128776**	GFL0089436	---
Sample Date		Client Info		**13 Jul 2024**	28 Jul 2023	---
Machine Age	mls	Client Info		**355324**	329996	---
Oil Age	mls	Client Info		**25328**	329996	---
Oil Changed		Client Info		**Not Changd**	Changed	---
Sample Status				**SEVERE**	SEVERE	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ **1587**	▲ 2618	---
Chromium	ppm	ASTM D5185m	>10	▲ **10**	▲ 19	---
Nickel	ppm	ASTM D5185m	>10	▲ **10**	▲ 45	---
Titanium	ppm	ASTM D5185m		**<1**	4	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	● **31**	● 159	---
Lead	ppm	ASTM D5185m	>25	**0**	<1	---
Copper	ppm	ASTM D5185m	>100	**2**	6	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

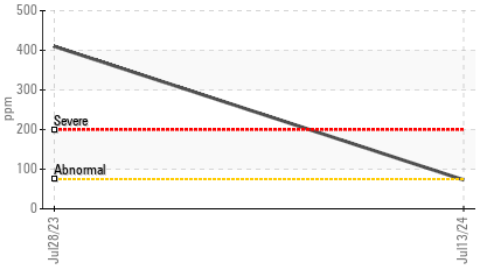
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	150	**6**	28	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**3**	6	---
Manganese	ppm	ASTM D5185m		**16**	29	---
Magnesium	ppm	ASTM D5185m	10	**3**	12	---
Calcium	ppm	ASTM D5185m	70	**49**	303	---
Phosphorus	ppm	ASTM D5185m	2000	**512**	420	---
Zinc	ppm	ASTM D5185m	50	**10**	95	---
Sulfur	ppm	ASTM D5185m	20000	**19129**	17615	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **73**	▲ 410	---
Sodium	ppm	ASTM D5185m		**2**	4	---
Potassium	ppm	ASTM D5185m	>20	**2**	15	---

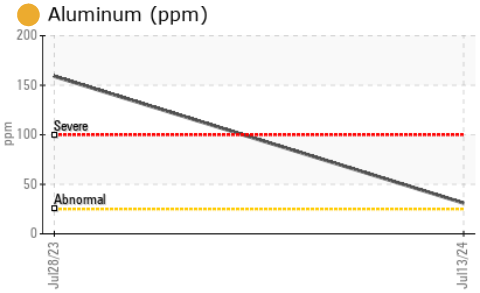
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**MODER**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	---

OIL ANALYSIS REPORT

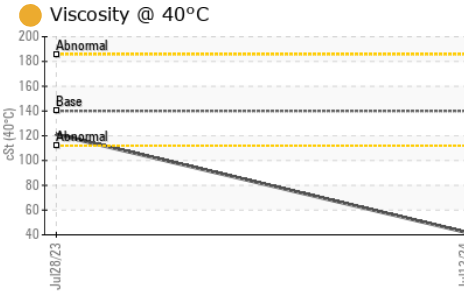
Silicon (ppm)



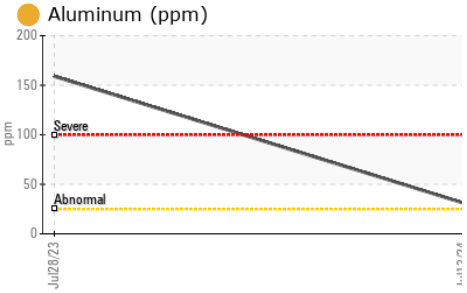
Aluminum (ppm)



Viscosity @ 40°C



Aluminum (ppm)

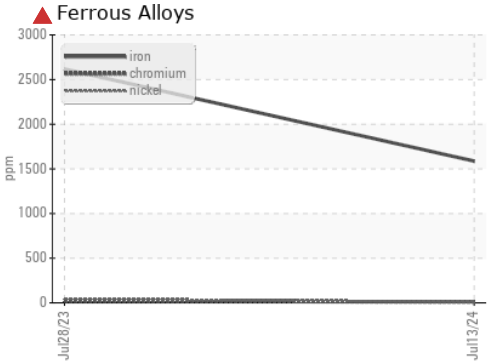


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	140	**42.1**	121	---

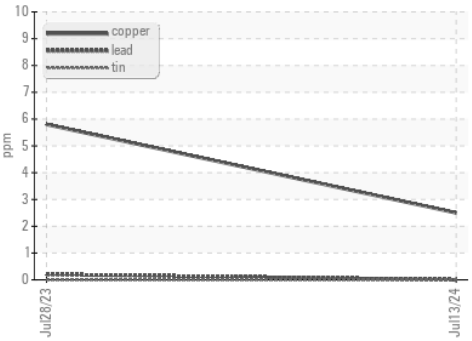
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

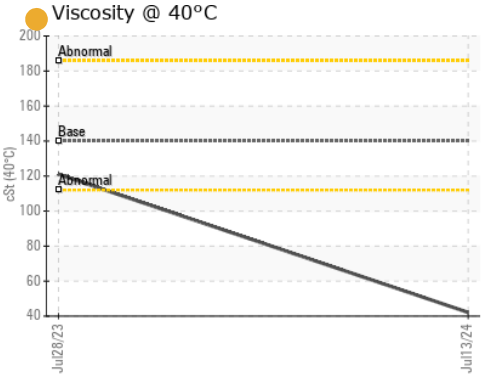
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0128776
Lab Number : 06240768
Unique Number : 11129602
Test Package : FLEET

Received : 18 Jul 2024
Tested : 19 Jul 2024
Diagnosed : 22 Jul 2024 - Don Baldridge

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)

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