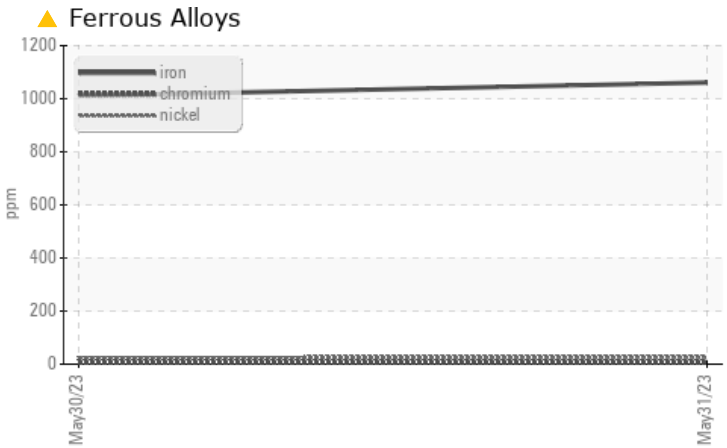
PROBLEM SUMMARY

Machine Id
424048
Component
Rear Differential
Fluid
GEAR OIL SAE 80W90 (--- LTR)

Sample Rating Trend

WEAR

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Iron	ppm	ASTM D5185m	>870	▲ **1061**	▲ 1011	---
Nickel	ppm	ASTM D5185m	>25	▲ **27**	▲ 25	---

Customer Id: GFL152
Sample No.: GFL0082031
Lab Number: 05864689
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

30 May 2023 Diag: Don Baldridge

WEAR

No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id
424048
Component
Rear Differential
Fluid
GEAR OIL SAE 80W90 (--- LTR)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
Gear wear is indicated.

Contamination
There is no indication of any contamination in the oil.

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		**GFL0082031**	GFL0082040	---
Sample Date		Client Info		**31 May 2023**	30 May 2023	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>870	▲ **1061**	▲ 1011	---
Chromium	ppm	ASTM D5185m	>8	**7**	7	---
Nickel	ppm	ASTM D5185m	>25	▲ **27**	▲ 25	---
Titanium	ppm	ASTM D5185m	>4	**1**	1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>40	**10**	10	---
Lead	ppm	ASTM D5185m	>25	**0**	<1	---
Copper	ppm	ASTM D5185m	>60	**4**	5	---
Tin	ppm	ASTM D5185m	>5	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**71**	68	---
Barium	ppm	ASTM D5185m	200	**4**	4	---
Molybdenum	ppm	ASTM D5185m	12	**2**	4	---
Manganese	ppm	ASTM D5185m		**11**	11	---
Magnesium	ppm	ASTM D5185m	12	**3**	30	---
Calcium	ppm	ASTM D5185m	150	**88**	152	---
Phosphorus	ppm	ASTM D5185m	1650	**798**	799	---
Zinc	ppm	ASTM D5185m	125	**76**	118	---
Sulfur	ppm	ASTM D5185m	22500	**20114**	18873	---

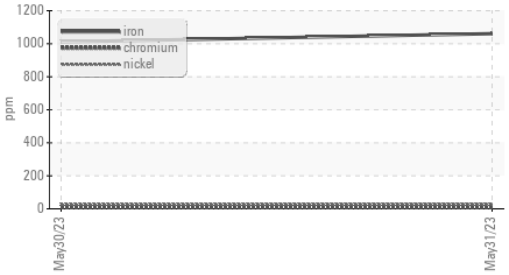
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>285	**223**	212	---
Sodium	ppm	ASTM D5185m	>170	**<1**	1	---
Potassium	ppm	ASTM D5185m	>20	**6**	6	---

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

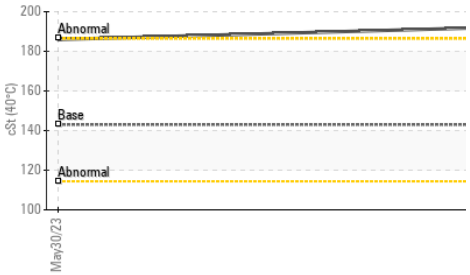
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**192**	186	---

OIL ANALYSIS REPORT

Ferrous Alloys



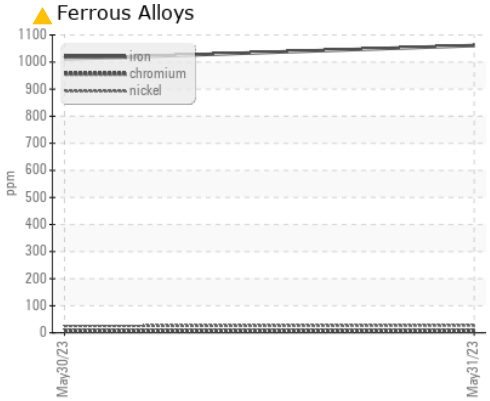
Viscosity @ 40°C



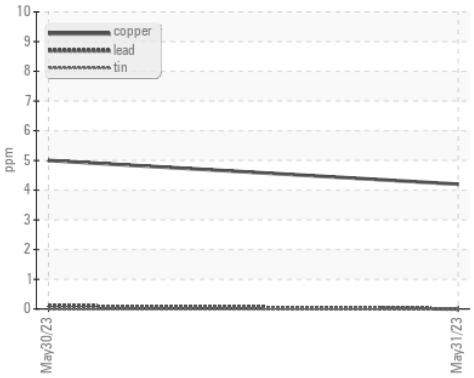
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

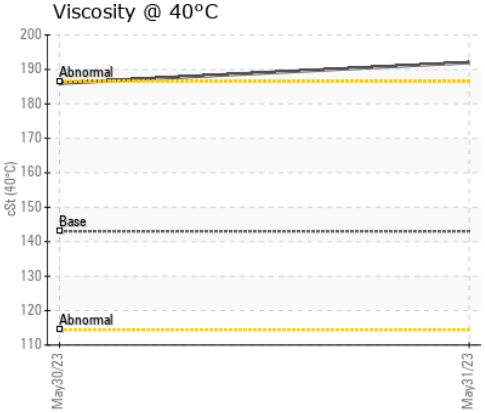
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0082031
Lab Number : 05864689
Unique Number : 10499154
Test Package : FLEET

Received : 05 Jun 2023
Diagnosed : 07 Jun 2023
Diagnostician : 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)

GFL Environmental - 152 - Jacksonville
7580 PHILIPS HWY
Jacksonville, FL
US 32256
Contact: Chris Smith
chris.smith@gflenv.com
T: (904)252-0013
F: