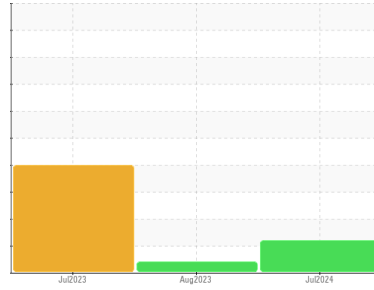




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id

427192

Component

1 Differential

Fluid

GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 1st Axle / Pusher)

▲ Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

● Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0128775	GFL0089374	GFL0089435
Sample Date	Client Info		13 Jul 2024	09 Aug 2023	28 Jul 2023
Machine Age	mls	Client Info	355324	331726	329996
Oil Age	mls	Client Info	329996	331726	329996
Oil Changed	Client Info		Not Chngd	Oil Added	Changed
Sample Status			ABNORMAL	ATTENTION	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 807	416	▲ 1337
Chromium	ppm	ASTM D5185m >10	5	2	9
Nickel	ppm	ASTM D5185m >10	4	4	▲ 22
Titanium	ppm	ASTM D5185m	0	0	1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	6	7	● 30
Lead	ppm	ASTM D5185m >25	0	<1	1
Copper	ppm	ASTM D5185m >100	6	4	19
Tin	ppm	ASTM D5185m >10	4	4	13
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	5	7	23
Barium	ppm	ASTM D5185m 200	0	0	<1
Molybdenum	ppm	ASTM D5185m 12	1	<1	4
Manganese	ppm	ASTM D5185m	8	4	16
Magnesium	ppm	ASTM D5185m 12	0	0	6
Calcium	ppm	ASTM D5185m 150	19	20	66
Phosphorus	ppm	ASTM D5185m 1650	493	479	385
Zinc	ppm	ASTM D5185m 125	0	1	37
Sulfur	ppm	ASTM D5185m 22500	18312	20590	19496

CONTAMINANTS

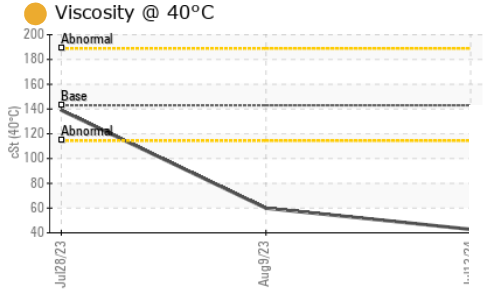
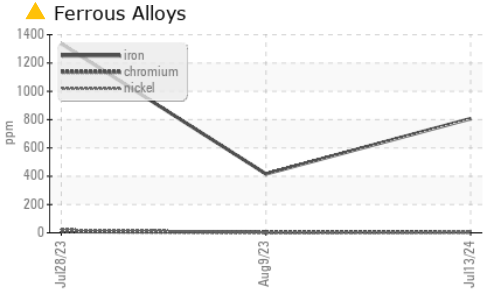
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	66	32	▲ 146
Sodium	ppm	ASTM D5185m >170	1	0	0
Potassium	ppm	ASTM D5185m >20	0	2	6

VISUAL

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



OIL ANALYSIS REPORT



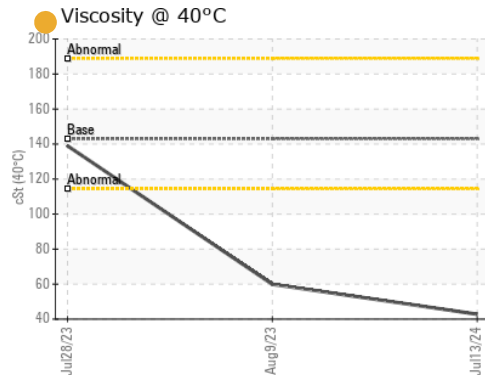
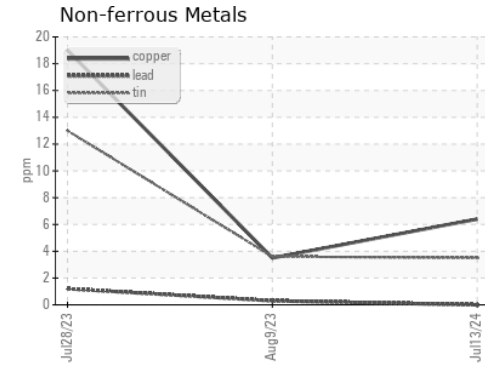
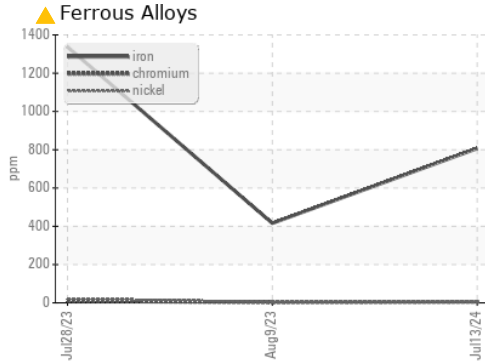
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	143 ● 42.8	59.9	139

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. : GFL0128775 **Received** : 18 Jul 2024
Lab Number : 06240769 **Tested** : 19 Jul 2024
Unique Number : 11129603 **Diagnosed** : 22 Jul 2024 - Don Baldrige
Test Package : FLEET

GFL Environmental - 983 - Sugar Land Hauling
 16011 West Belfort Street
 Sugar Land, TX
 US 77498
 Contact: Adrian Martinez
 adrianmartinez@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)