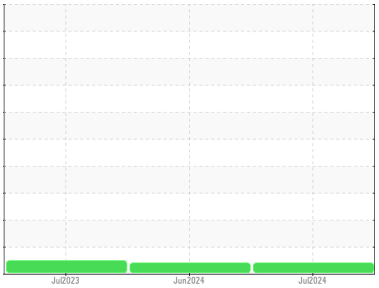
OIL ANALYSIS REPORT

Machine Id
420093
Component
1 Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)

Sample Rating Trend



VISCOSITY

DIAGNOSIS

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

Wear
All component wear rates are normal.

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		**GFL0128718**	GFL0123546	GFL0085449
Sample Date		Client Info		**10 Jul 2024**	13 Jun 2024	12 Jul 2023
Machine Age	mls	Client Info		**148809**	148809	112519
Oil Age	mls	Client Info		**148809**	148809	112591
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**ATTENTION**	ATTENTION	NORMAL

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	>1200	**193**	460	277
Chromium	ppm	ASTM D5185m	>8	**1**	3	2
Nickel	ppm	ASTM D5185m	>20	**18**	6	15
Titanium	ppm	ASTM D5185m	>4	**0**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>30	**2**	19	7
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**<1**	8	2
Tin	ppm	ASTM D5185m	>5	**0**	3	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**28**	25	82
Barium	ppm	ASTM D5185m	200	**0**	0	1
Molybdenum	ppm	ASTM D5185m	12	**0**	2	<1
Manganese	ppm	ASTM D5185m		**2**	5	6
Magnesium	ppm	ASTM D5185m	12	**1**	4	6
Calcium	ppm	ASTM D5185m	150	**24**	124	20
Phosphorus	ppm	ASTM D5185m	1650	**533**	460	1005
Zinc	ppm	ASTM D5185m	125	**53**	329	54
Sulfur	ppm	ASTM D5185m	22500	**17013**	3500	24253

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>230	**70**	50	183
Sodium	ppm	ASTM D5185m	>170	**3**	0	6
Potassium	ppm	ASTM D5185m	>20	**1**	2	3

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

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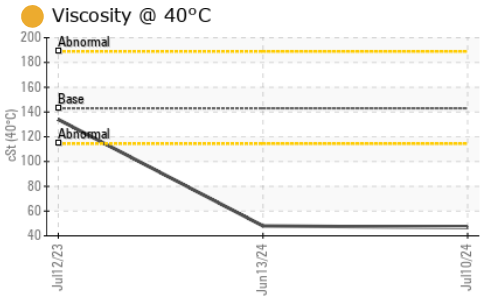
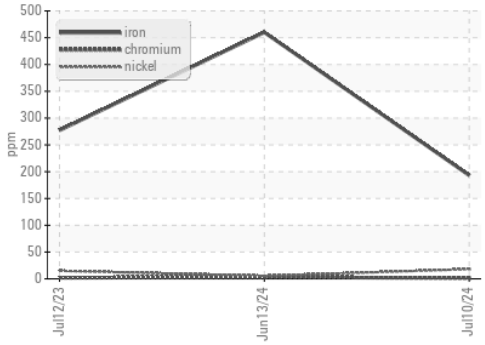


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**46.7**	48.0	134

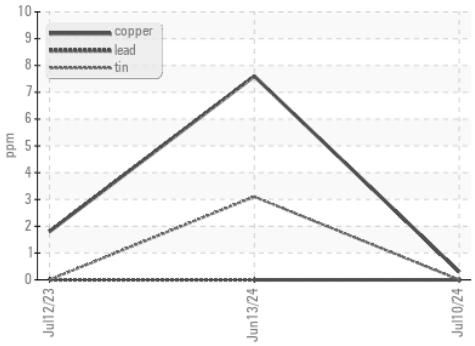
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

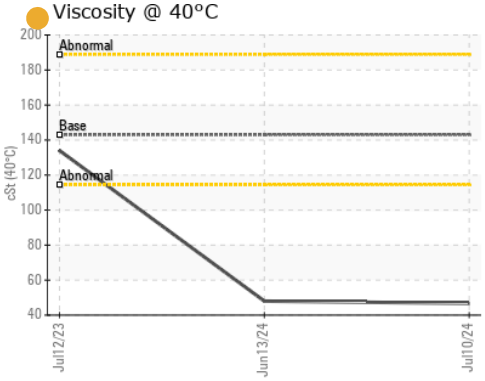
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0128718
Lab Number : 06238249
Unique Number : 11127083
Test Package : FLEET

Received : 16 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 18 Jul 2024 - Sean Felton

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

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)