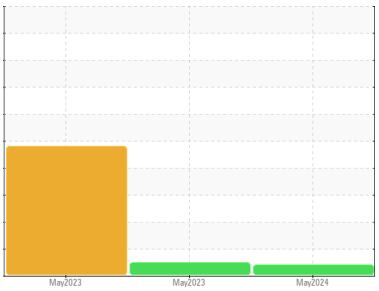
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
426137
Component
2 Differential
Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 2nd Axle / Tag)

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		**GFL0112056**	GFL0085418	GFL0075338
Sample Date		Client Info		**06 May 2024**	31 May 2023	20 May 2023
Machine Age	mls	Client Info		**360096**	544078	544075
Oil Age	mls	Client Info		**360096**	3	0
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ATTENTION**	NORMAL	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	**439**	226	▲ 2390
Chromium	ppm	ASTM D5185m	>10	**3**	2	▲ 20
Nickel	ppm	ASTM D5185m	>10	**7**	5	▲ 68
Titanium	ppm	ASTM D5185m		**<1**	<1	2
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	<1	▲ 26
Lead	ppm	ASTM D5185m	>25	**0**	0	<1
Copper	ppm	ASTM D5185m	>100	**0**	0	6
Tin	ppm	ASTM D5185m	>10	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**51**	32	182
Barium	ppm	ASTM D5185m	200	**1**	0	0
Molybdenum	ppm	ASTM D5185m	12	**0**	<1	3
Manganese	ppm	ASTM D5185m		**5**	3	33
Magnesium	ppm	ASTM D5185m	12	**7**	7	7
Calcium	ppm	ASTM D5185m	150	**2532**	2765	89
Phosphorus	ppm	ASTM D5185m	1650	**969**	930	1363
Zinc	ppm	ASTM D5185m	125	**939**	1082	70
Sulfur	ppm	ASTM D5185m	22500	**6938**	7210	24399

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**46**	29	▲ 255
Sodium	ppm	ASTM D5185m		**2**	2	9
Potassium	ppm	ASTM D5185m	>20	**2**	3	35

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	**MODER**	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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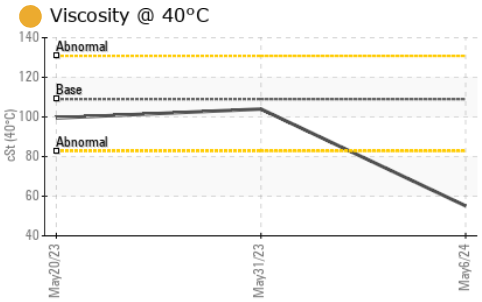
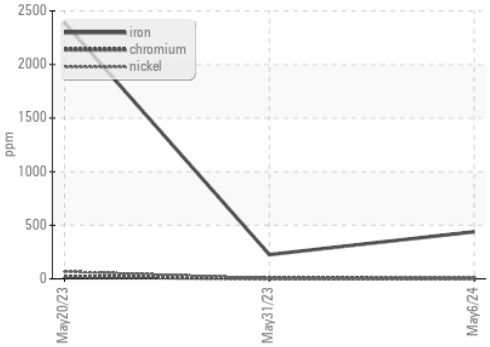


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	**55.1**	104	99.5

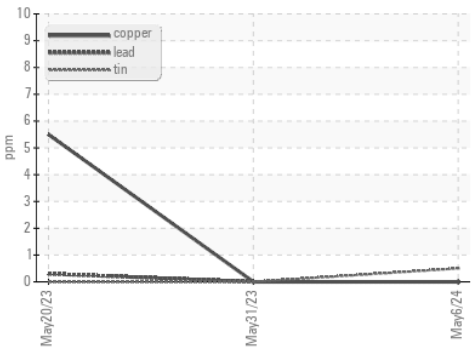
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

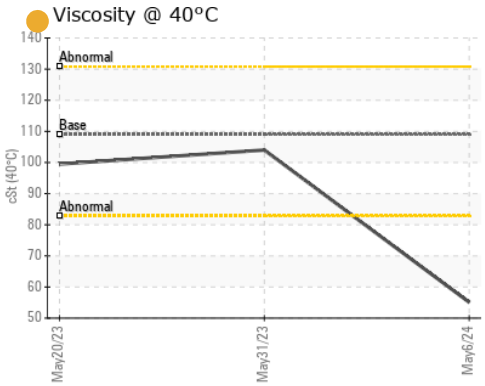
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0112056
Lab Number : 06177566
Unique Number : 11023619
Test Package : FLEET

Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 15 May 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)

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] 06177566 (Generated: 05/15/2024 14:15:47) Rev: 1

Submitted By: TECHNICIAN ACCOUNT