



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
420092
Component
1 Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112094	GFL0085411	GFL0085422
Sample Date		Client Info		18 Mar 2024	07 Jul 2023	31 May 2023
Machine Age	mls	Client Info		150271	116311	113646
Oil Age	mls	Client Info		150271	116311	105020
Filter Age	mls	Client Info		150271	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	373	101	340
Chromium	ppm	ASTM D5185m	>8	<1	<1	3
Nickel	ppm	ASTM D5185m	>20	9	7	23
Titanium	ppm	ASTM D5185m	>4	0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	▲ 37	2	17
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

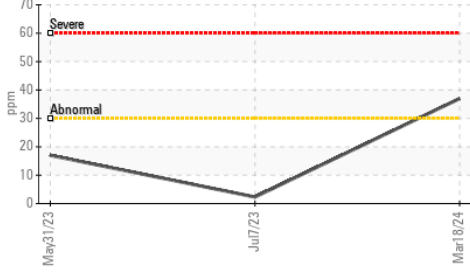
Silicon	ppm	ASTM D5185m	>230	81	95	166
Potassium	ppm	ASTM D5185m	>20	<1	0	3
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

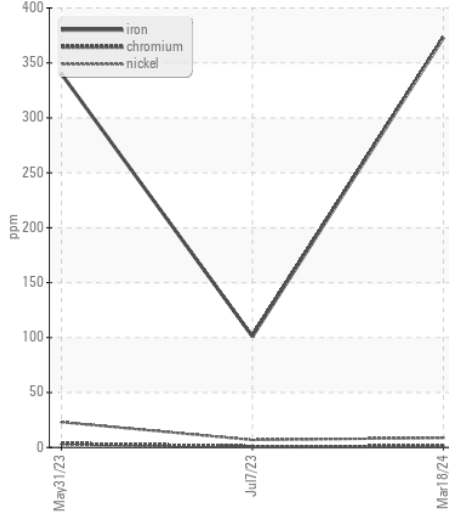
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	2	4	5
Boron	ppm	ASTM D5185m	400	27	147	154
Barium	ppm	ASTM D5185m	200	<1	0	1
Molybdenum	ppm	ASTM D5185m	12	<1	0	<1
Manganese	ppm	ASTM D5185m		3	2	7
Magnesium	ppm	ASTM D5185m	12	2	0	2
Calcium	ppm	ASTM D5185m	150	123	20	25
Phosphorus	ppm	ASTM D5185m	1650	512	964	1008
Zinc	ppm	ASTM D5185m	125	258	8	20
Sulfur	ppm	ASTM D5185m	22500	10563	21942	23355
Visc @ 40°C	cSt	ASTM D445	143	69.9	131	134

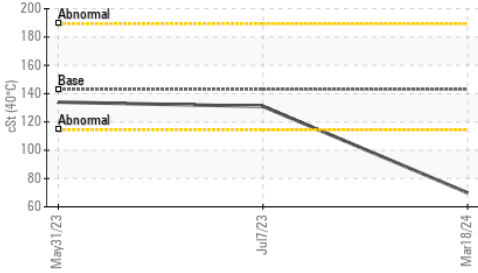
▲ Aluminum (ppm)



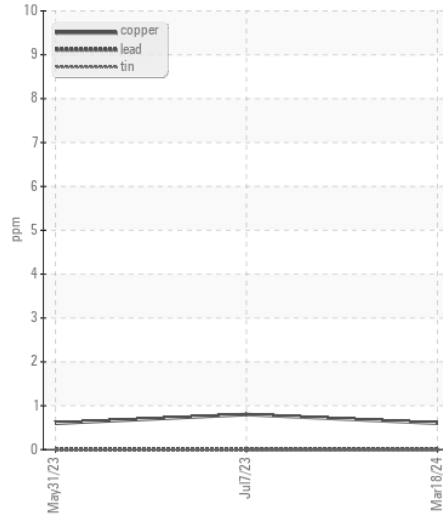
Ferrous Alloys



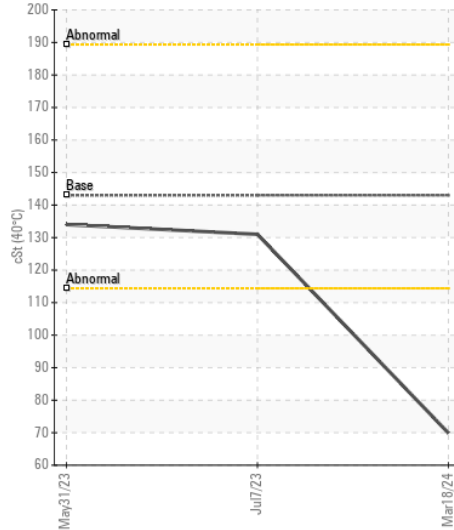
Viscosity @ 40°C



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0112094
Lab Number : 06125186
Unique Number : 10939337
Test Package : FLEET

Received : 21 Mar 2024
Tested : 25 Mar 2024
Diagnosed : 25 Mar 2024 - Sean Felton

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

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