



Machine Id
427193
 Component
2 Differential
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

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

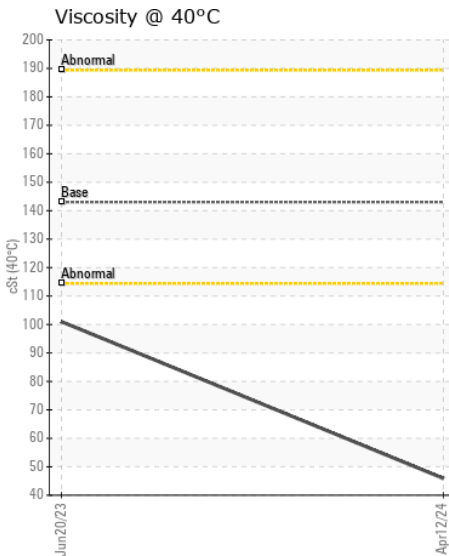
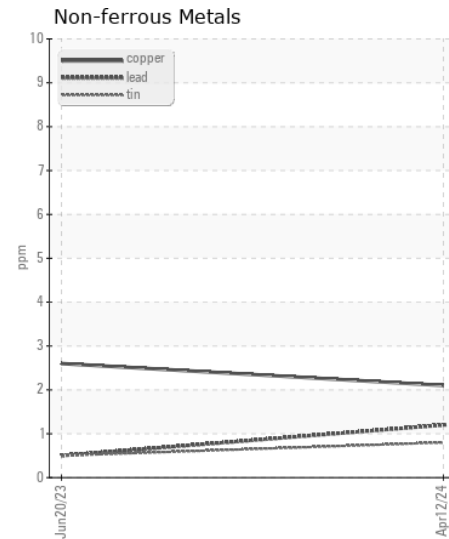
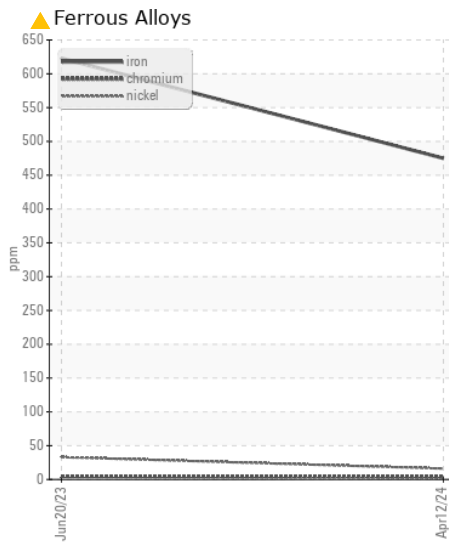
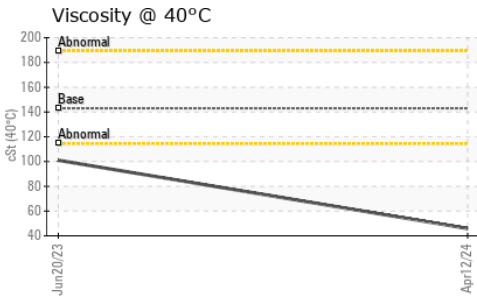
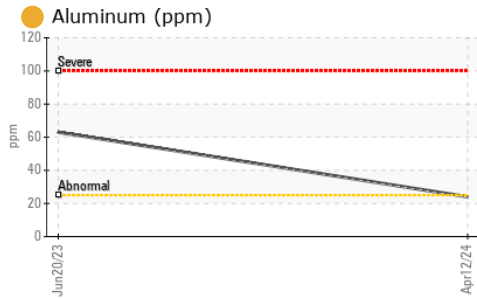
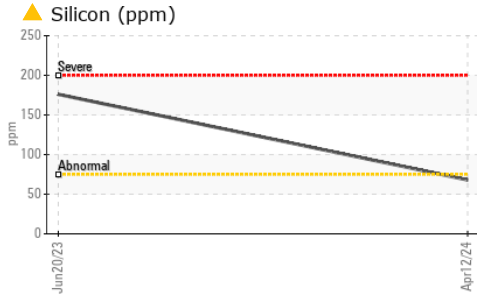
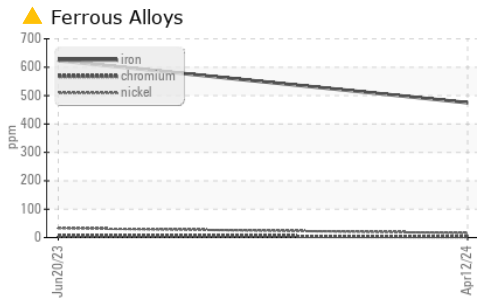
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112039	GFL0085428	---
Sample Date		Client Info		12 Apr 2024	20 Jun 2023	---
Machine Age	mls	Client Info		338877	301654	---
Oil Age	mls	Client Info		338877	301654	---
Filter Age	mls	Client Info		338877	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>500	475	▲ 623	---
Chromium	ppm	ASTM D5185m	>10	4	5	---
Nickel	ppm	ASTM D5185m	>10	▲ 16	▲ 33	---
Titanium	ppm	ASTM D5185m		1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 24	● 63	---
Lead	ppm	ASTM D5185m	>25	1	<1	---
Copper	ppm	ASTM D5185m	>100	2	3	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 68	▲ 176	---
Potassium	ppm	ASTM D5185m	>20	7	12	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	LIGHT	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	---
Sodium	ppm	ASTM D5185m	>170	0	3	---
Boron	ppm	ASTM D5185m	400	49	165	---
Barium	ppm	ASTM D5185m	200	2	0	---
Molybdenum	ppm	ASTM D5185m	12	2	0	---
Manganese	ppm	ASTM D5185m		6	11	---
Magnesium	ppm	ASTM D5185m	12	4	5	---
Calcium	ppm	ASTM D5185m	150	89	42	---
Phosphorus	ppm	ASTM D5185m	1650	413	1204	---
Zinc	ppm	ASTM D5185m	125	250	42	---
Sulfur	ppm	ASTM D5185m	22500	4434	23131	---
Visc @ 40°C	cSt	ASTM D445	143	45.9	101	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0112039
Lab Number : 06153536
Unique Number : 10983614
Test Package : FLEET

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 22 Apr 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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F: