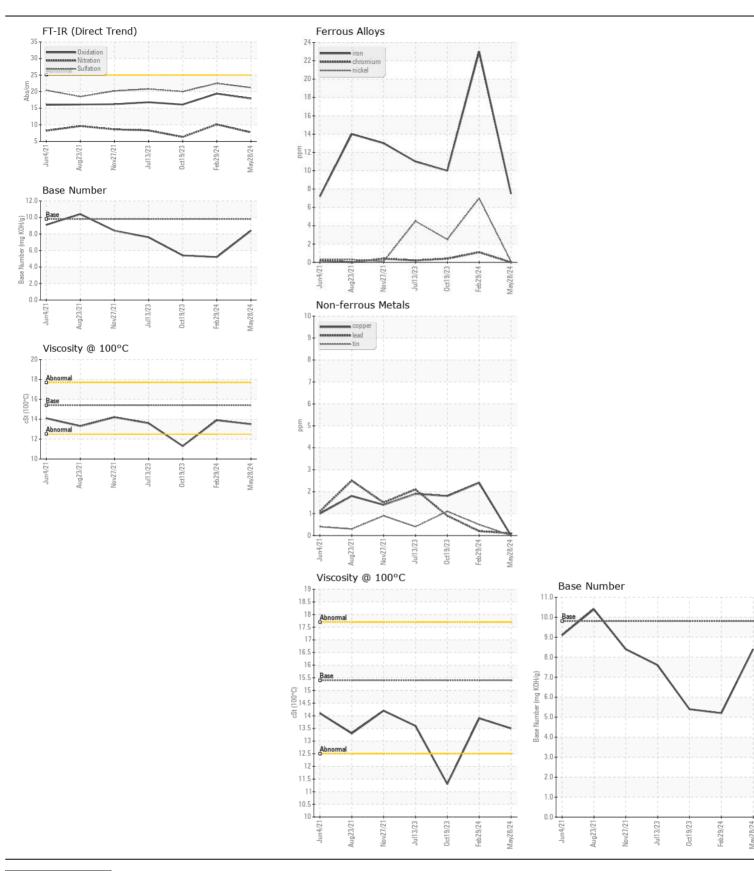
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 



RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0122542	GFL0108944	GFL009316
	Sample Date		Client Info		28 May 2024	29 Feb 2024	19 Oct 202
	Machine Age	hrs	Client Info		17256	16576	15744
	Oil Age	hrs	Client Info		16576	15744	15159
	Filter Age	hrs	Client Info		16576	15744	15159
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ATTENTION
VEAR	Iron	ppm	ASTM D5185m	>120	8	23	10
	Chromium	ppm	ASTM D5185m	>20	0	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	<u>^</u> 7	2
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	3	3
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		0	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	4	5
	Potassium	ppm	ASTM D5185m	>20	0	2	3
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	0.9
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.4	0.8	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	10.1	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	22.5	20.0
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	4
	Boron	ppm	ASTM D5185m	0	2	<1	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	57	64	38
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	921	969	645
	Calcium	ppm	ASTM D5185m	1070	1028	1105	720
	Phosphorus	ppm	ASTM D5185m	1150	972	1024	686
	Zinc	ppm	ASTM D5185m	1270	1214	1310	915
	Sulfur	ppm	ASTM D5185m	2060	3050	2666	2016
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	19.4	16.1
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	5.2	5.4







Certificate L2367

Laboratory Sample No.

: GFL0122542 Lab Number : 06195201 Unique Number : 11057324 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** 

: 31 May 2024 Diagnosed : 31 May 2024 - Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com

T: (586)825-9514

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)