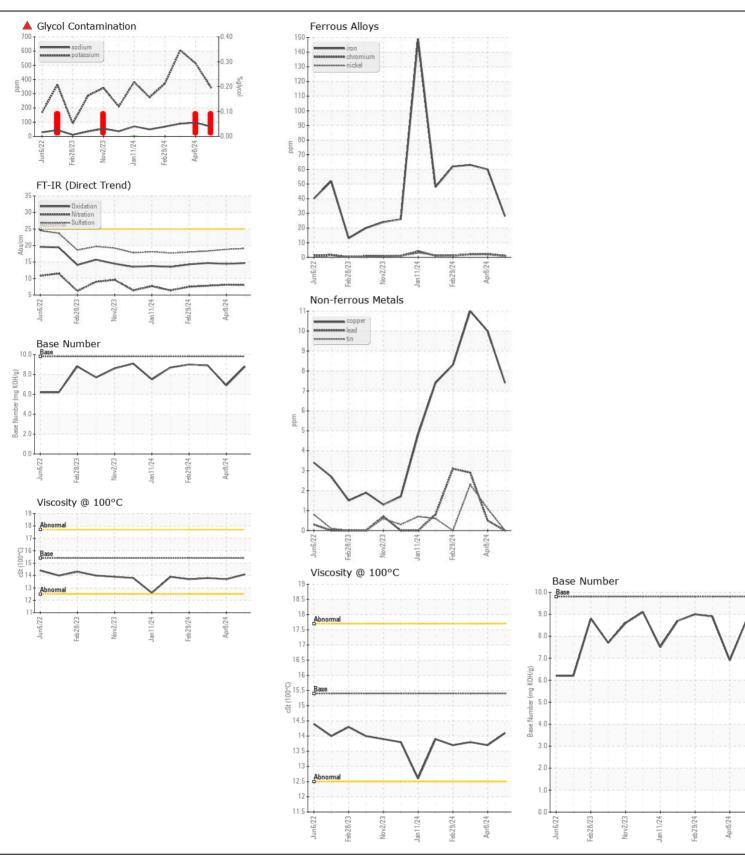
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ATTENTION

Machine Id **729091** 

Diesel Engine

	)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0122004	GFL0111881	GFL011189
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		25 Jun 2024	08 Apr 2024	20 Mar 202
	Machine Age	hrs	Client Info		16109	15476	15330
	Oil Age	hrs	Client Info		16109	15476	15330
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Not Changd	Not Change
	Sample Status				SEVERE	SEVERE	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>100	28	60	63
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	2	2
	Nickel	ppm	ASTM D5185m	>4	<1	2	2
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	6	7	9
	Lead	ppm	ASTM D5185m	>40	0	<1	3
	Copper	ppm	ASTM D5185m	>330	7	10	11
	Tin	ppm	ASTM D5185m	>15	0	1	2
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	9	13
Took for almost in moditive. There is a binds approximation of almost	Potassium	ppm	ASTM D5185m	>20	<b>4</b> 344	<u></u> 514	<u>▲</u> 606
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		<b>4</b> 0.10	<b>△</b> 0.10	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.1	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.8	18.3
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<b>68</b>	96	<b>8</b> 9
	Boron	ppm	ASTM D5185m	0	4	0	4
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m	0	<1	<1	2
oil. The oil is no longer serviceable due to the presence of contaminants.	Molybdenum	ppm	ASTM D5185m		117	141	137
	Manganese	ppm	ASTM D5185m		<1	1	1
	Magnesium	ppm	ASTM D5185m		958	936	932
	Calcium	ppm	ASTM D5185m		1168	1126	1142
	Phosphorus	ppm	ASTM D5185m		1133	1095	1289
	Zinc	ppm	ASTM D5185m		1377	1273	1267
	Sulfur	ppm	ASTM D5185m		3670	3378	3492
	Oxidation	Abs/.1mm	*ASTM D7414		14.7	14.4	14.7
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	6.9	8.9
	Dasc Number (DIV)	mg rtorng	1101111 22000		0.0		







Laboratory Sample No.

: GFL0122004 Lab Number : 06222166 Unique Number : 11100363 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2024 **Tested** : 28 Jun 2024

Diagnosed : 28 Jun 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO

wmilo@gflenv.com

T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367 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.