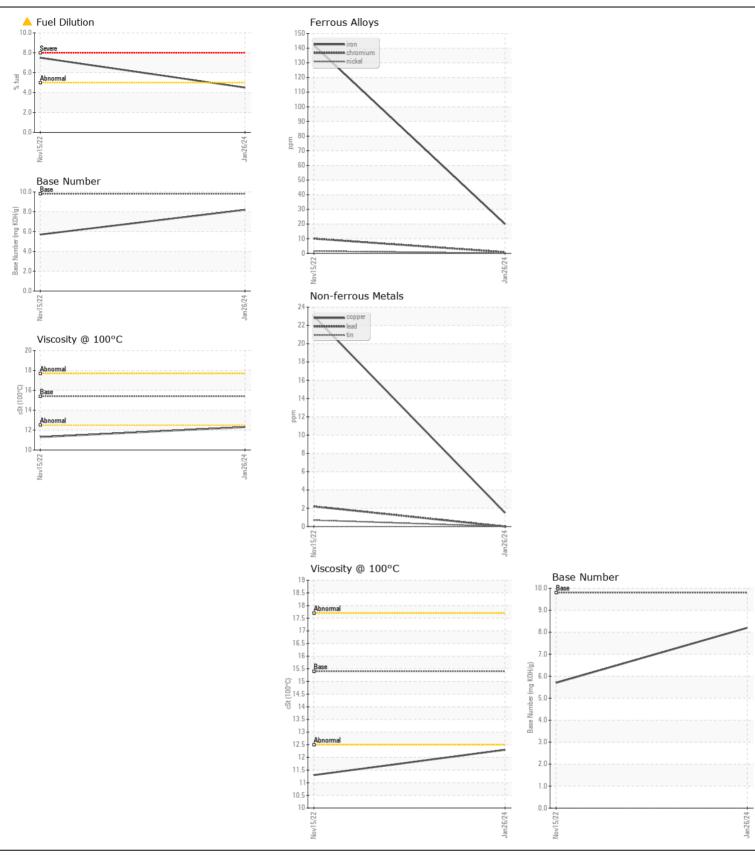
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL NORMAL

(FB50678) Machine Id 211008

Component
Diesel Fngine

ECOMMENDATION	Toct	UOM	Mothad	limit/Abo	Curront	Hictory!	Lliotor O
RECOMMENDATION	Test Sample Number	UUIVI	Method Client Info	Limit/Abn	Current GFL0108538	History1 GFL0055729	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		26 Jan 2024	15 Nov 2022	
	Machine Age	hrs	Client Info		0	500	
	Oil Age	hrs	Client Info		0	500	
	Filter Age	hrs	Client Info		0	500	
	Oil Changed	1113	Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status		Onone inio		MARGINAL	ABNORMAL	
/EAR	Iron	ppm	ASTM D5185m	>100	20	142	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	10	
	Nickel	ppm	ASTM D5185m	>2	0	2	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	2	4	
	Aluminum	ppm	ASTM D5185m	>25	2	8	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m		2	23	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	nnm	ASTM D5185m	> 25	4	14	
ONTAIMINATION	Potassium	ppm	ASTM D5185m		3	0	
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D316311		<u> </u>	<u> </u>	
	Water	70	WC Method		NEG	NEG	
	Glycol		WC Method	7 U.L	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	1.1	
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	17.9	
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	34.5	
	Silt	scalar	*Visual	NONE	NONE	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	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	6	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		3	25	
	Barium	ppm	ASTM D5185m		25	0	
	Molybdenum	ppm	ASTM D5185m		58	71	
	Manganese	ppm	ASTM D5185m		0	6	
	Magnesium	ppm	ASTM D5185m		837	258	
	Calcium	ppm	ASTM D5185m		1019	1712	
	Phosphorus	ppm	ASTM D5185m		1020	920	
	Zinc	ppm	ASTM D5185m		1116	1130	
	Sulfur	ppm	ASTM D5185m		3085	3203	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	34.7	
	Base Number (BN)	I/OII/	ACTM DOOGS	0.0	8.2	5.7	







Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108538 Lab Number : 06084533

Received Unique Number: 10871978

Tested Diagnosed Test Package : FLEET (Additional Tests: PercentFuel)

: 09 Feb 2024 : 13 Feb 2024

: 13 Feb 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC 11888 & 11863 30th Avenue

Chippewa Falls, WI US 54729

Contact: Andy Kane

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)

T: (715)202-3420

F: