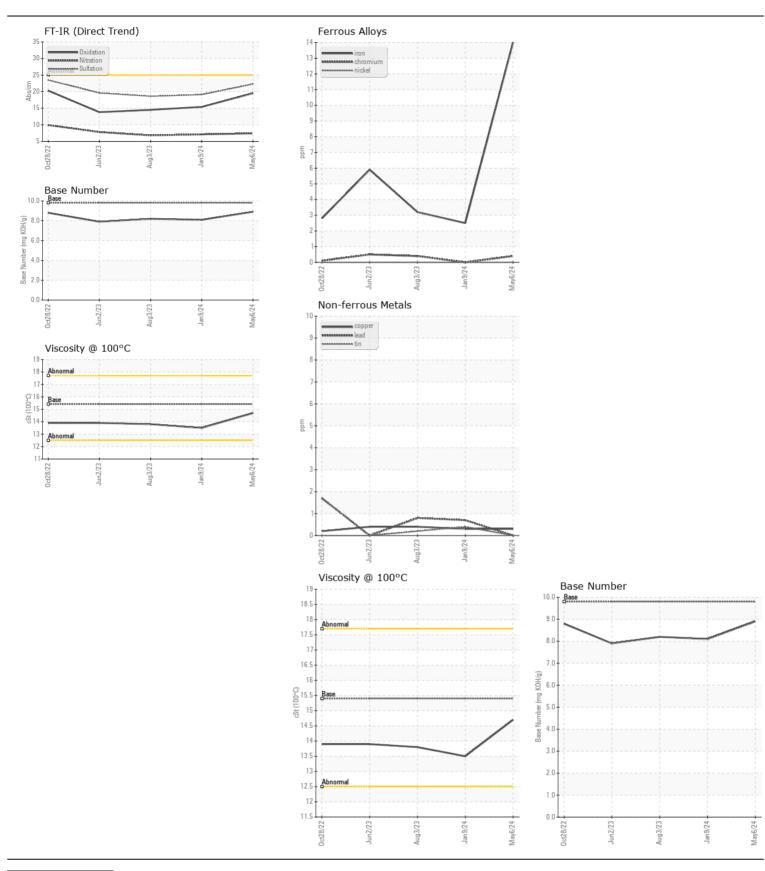
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

924040

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0120598	GFL0108524	GFL006605
	Sample Date		Client Info		06 May 2024	09 Jan 2024	03 Aug 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>110	14	2	3
	Chromium	ppm	ASTM D5185m	>4	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	1	<1
	Lead	ppm	ASTM D5185m	>45	0	<1	<1
	Copper	ppm	ASTM D5185m	>85	<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	4	6	7
	Potassium	ppm	ASTM D5185m	>20	2	<1	3
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.1	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	19.1	18.6
	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		16	4	4
	Boron	ppm	ASTM D5185m	0	0	12	10
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
	Molybdenum	ppm	ASTM D5185m	60	62	58	54
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1040	950	906
	Calcium	ppm	ASTM D5185m		1173	1081	1212
	Phosphorus	ppm	ASTM D5185m		1105	1095	990
	Zinc	ppm	ASTM D5185m		1271	1272	1221
	Sulfur	ppm	ASTM D5185m		3860	3118	3633
	Oxidation	Abs/.1mm	*ASTM D7414		19.5	15.4	14.5
	Base Number (BN)		ASTM D2896		8.9	8.1	8.2
	Visc @ 100°C	cSt	ASTM D445		14.7	13.5	13.8





Certificate L2367

Laboratory Sample No.

: GFL0120598 Lab Number : 06178362 Unique Number : 11029688 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024 **Tested** : 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue

Chippewa Falls, WI US 54729

T: (715)202-3420

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)