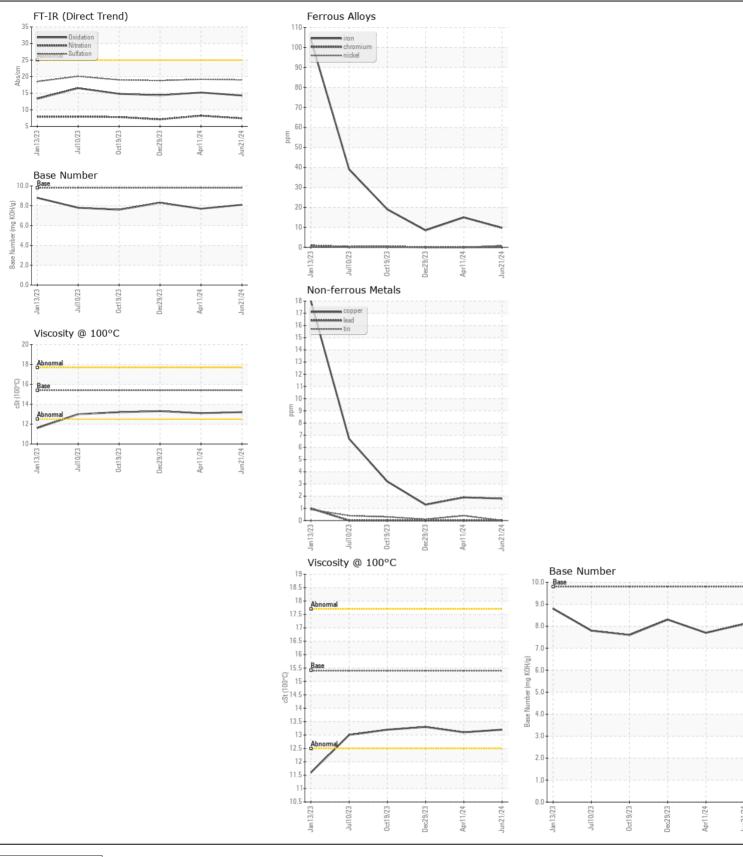
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

(RB35729)

912057

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0095351	GFL0095363	GFL009537
	Sample Date		Client Info		21 Jun 2024	11 Apr 2024	29 Dec 202
	Machine Age	hrs	Client Info		2588	2156	1562
	Oil Age	hrs	Client Info		482	594	397
	Filter Age	hrs	Client Info		482	594	397
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	10	15	8
WEAR	Chromium	ppm	ASTM D5185m		<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	77	0	0	0
	Silver	ppm	ASTM D5185m	~3	<1	<1	0
	Aluminum	ppm	ASTM D5185m		5	8	5
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	2	1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	7.0	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABBINATION	0.11.		AOTA DE LOS				
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	3	2
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	9	11
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.2	7.1
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	19.2	18.8
	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 NORM
	Odor Emulsified Water	scalar	*Visual	NORML	NORML NEG	NORML NEG	
<u></u>	water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	3	<1
	Boron	ppm	ASTM D5185m	0	8	9	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	60	60	55
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m	1010	1028	951	967
	Calcium	ppm	ASTM D5185m	1070	1165	1081	1122
	Phosphorus	ppm	ASTM D5185m	1150	1094	1089	1036
	Zinc	ppm	ASTM D5185m	1270	1369	1258	1262
	Sulfur	ppm	ASTM D5185m	2060	3800	3642	3201
	Oxidation	Abs/.1mm	*ASTM D7414		14.3	15.2	14.4
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.7	8.3
	Visc @ 100°C	cSt	ASTM D445	4 = 4	13.2	13.1	13.3







Certificate L2367

Laboratory Sample No.

Lab Number : 06222969 Unique Number : 11101166 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0095351

Received : 27 Jun 2024 **Tested** : 28 Jun 2024

Diagnosed : 28 Jun 2024 - Wes Davis

GFL Environmental - 930 - Mosinee HC

1372 State Highway 34 MOSINEE, WI US 54455

Contact: Kirk Koss

T: (715)571-2784

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)

F: