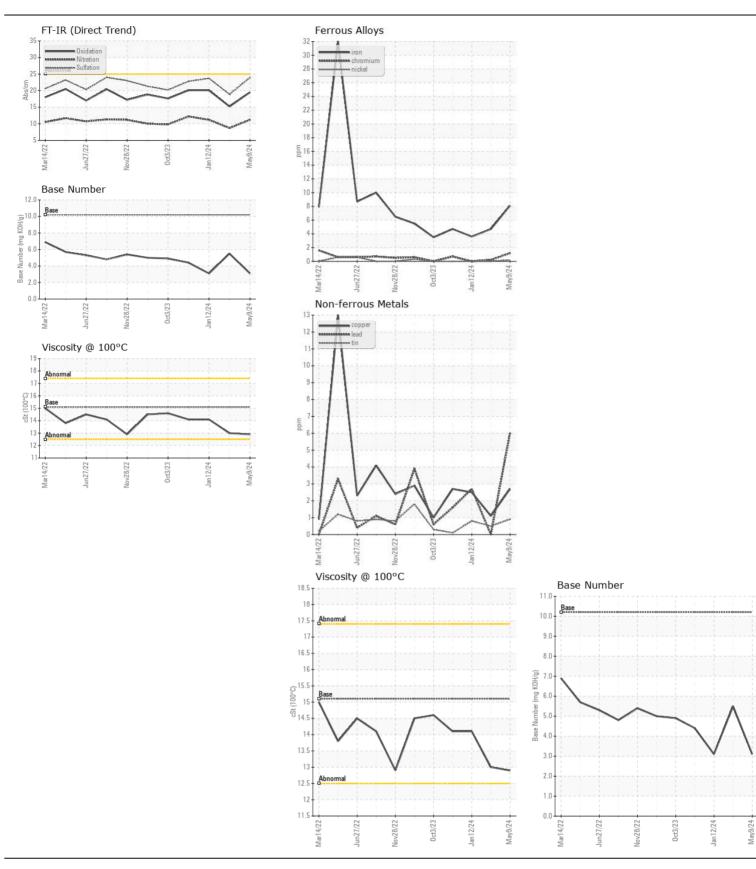
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

(P830962)

932001

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0117972	GFL0101778	GFL010177
	Sample Date		Client Info		09 May 2024	14 Feb 2024	12 Jan 2024
	Machine Age	hrs	Client Info		5693	5693	5208
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>165	8	5	4
	Chromium	ppm	ASTM D5185m		1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		6	0	3
	Copper	ppm	ASTM D5185m		3	1	2
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	11	6	7
	Potassium	ppm	ASTM D5185m		3	1	1
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>7.5	0	0.1	0
	Nitration	Abs/cm	*ASTM D7624		11.2	8.7	11.2
	Sulfation	Abs/.1mm	*ASTM D7415		23.9	18.9	23.7
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	6	6
ESIB SSIIBITISII	Boron	ppm	ASTM D5185m	50	4	18	6
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		2	0	0
	Molybdenum	ppm	ASTM D5185m		56	48	46
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		519	515	543
	Calcium	ppm	ASTM D5185m		1528	1436	1467
	Phosphorus	ppm	ASTM D5185m		711	668	701
	Zinc	ppm	ASTM D5185m		887	874	913
	Sulfur	ppm	ASTM D5185m		2463	2327	2311
	Oxidation	Abs/.1mm	*ASTM D7414		19.5	15.2	20.1
	Base Number (BN)		ASTM D2896		3.1	5.5	3.1
						0.0	U. 1





Certificate L2367

Laboratory Sample No.

: GFL0117972 Lab Number : 06176511 Unique Number : 11022564 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested** : 13 May 2024

Diagnosed : 13 May 2024 - Wes Davis

GFL Environmental - 030 - Conway Myrtle Beach

3010 HWY 378 Conway, SC US 29527

Contact: ARCILIO RUEZ

aruiz@gflenv.com T:

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: