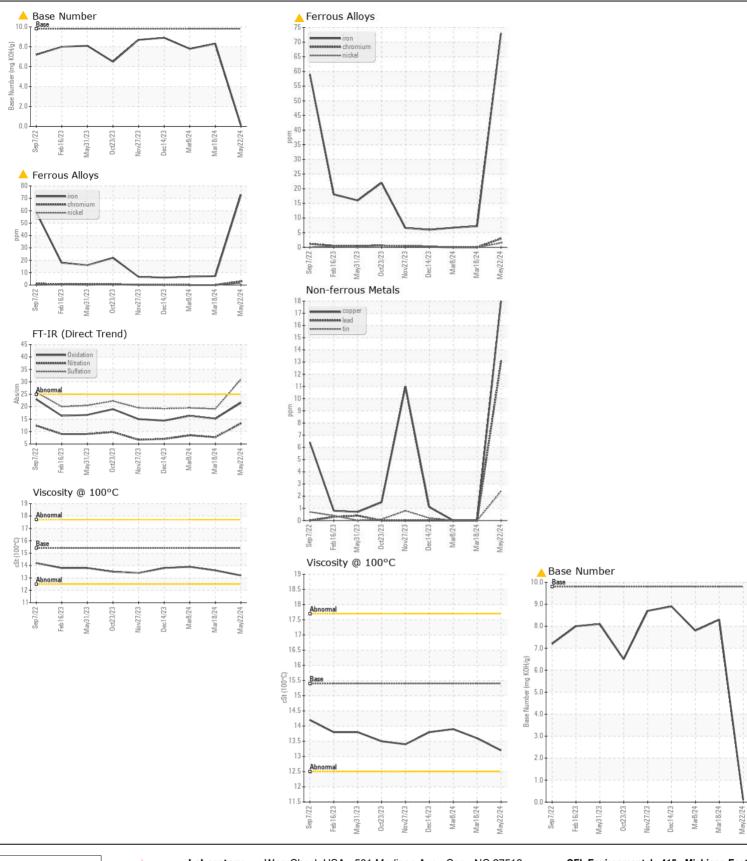
WEAR CONTAMINATION **FLUID CONDITION**

MARGINAL NORMAL ABNORMAL



Machine Id 712030 Component
Diesel Engine

RECOMMENDATION Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0122496	GFL0108796	GFL0108782
	Sample Date		Client Info		22 May 2024	18 Mar 2024	08 Mar 2024
	Machine Age	hrs	Client Info		8231	7636	7520
	Oil Age	hrs	Client Info		7636	7520	6773
	Filter Age	hrs	Client Info		7636	7520	6773
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	\9 0	▲ 73	7	7
WEAT	Chromium	ppm	ASTM D5185m		3	0	0
An increase in the iron level is noted. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	0	0
	Titanium	ppm	ASTM D5185m		- <1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		6	2	2
	Lead	ppm	ASTM D5185m	>40	13	0	0
	Copper	ppm	ASTM D5185m		18	0	0
	Tin	ppm	ASTM D5185m		2	0	0
	Vanadium	ppm	ASTM D5185m		- <1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0:::		AOTM DEGOE				
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	2 1	2
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		3	·	0
			WC Method		<1.0 NEG	<1.0	<1.0
	Water Glycol		WC Method	>0.2	NEG	NEG NEG	NEG NEG
	Soot %	%	*ASTM D7844	× 6	5	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	13.3	7.7	8.5
	Sulfation	Abs/.1mm	*ASTM D7024		31.0	19.1	19.5
	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		*Visual	>0.2	NEG	NEG	NEG
THE CONDITION			AOTA DE LOS				4
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	4	2	4
The BN level is low. The oil is no longer serviceable.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		6 0	0	0
		ppm					
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		46 -1	56 0	59 <1
	Magnesium	ppm	ASTM D5185m		<1 685	960	927
	Calcium	ppm	ASTM D5185m		839	1095	1076
	Phosphorus	ppm	ASTM D5185m		748	1048	1076
	Zinc		ASTM D5185m		1044	1314	1266
	Sulfur	ppm	ASTM D5185m		2260	3640	3364
	Oxidation	Abs/.1mm	*ASTM D7414		2260	15.2	16.3
						8.3	7.8
	Base Number (BN)	mg KOH/g	ASTM D2896	98	<u> </u>	83	/ ×







Certificate L2367

Laboratory Sample No.

: GFL0122496 Lab Number : 06190327 Unique Number : 11047079 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested** : 29 May 2024

: 29 May 2024 - Don Baldridge Diagnosed

GFL Environmental - 415 - Michigan East 6200 Elmridge Sterling Heights, MI

US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

Submitted By: Frank Wolak

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.