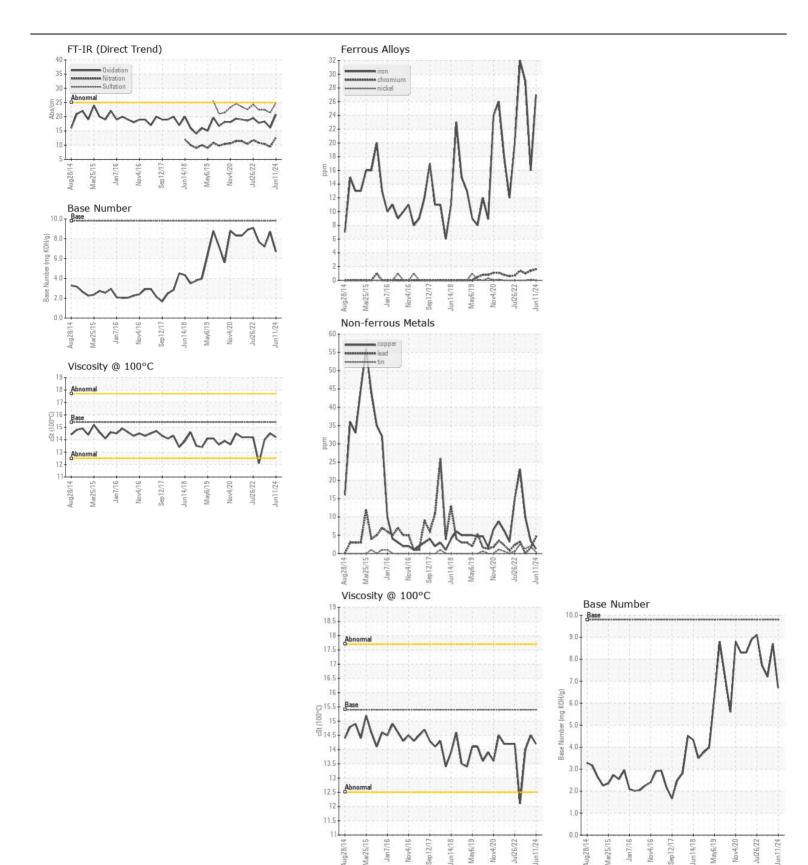
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

(YA116924)

2512 Component Diesel Engine

Resample at the next service interval to monitor. Test UOM Method Limit/Abn Current Sample Number Client Info GFL0082425 Sample Date Client Info Machine Age MIS Client Info Oil Age MIS Client Info 493220 Oil Age MIS Client Info 492220	History1	History2
Resample at the next service interval to monitor. Sample Number Sample Number Client Info Client Info 11 Jun 2024 Machine Age MIS Client Info 493220	0510000444	I IIStOTY Z
Resample at the next service interval to monitor. Sample Date Client Info 493220	GFL0082444	GFL0050792
	07 Sep 2023	03 May 2023
Oil Ago mla Client Info 40220	20950	20327
Oil Age IIIIS Chefit IIIIO 492220	350	598
Filter Age mls Client Info 330882	350	598
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 27	16	29
Chromium ppm ASTM D5185m >5 2	1	1
All component wear rates are normal. Nickel ppm ASTM D5185m >4 0	<1	0
Titanium ppm ASTM D5185m >2 <1	<1	0
Silver ppm ASTM D5185m >2 0	0	0
Aluminum ppm ASTM D5185m >20 2	1	3
Lead ppm ASTM D5185m >150 4	2	0
Copper ppm ASTM D5185m >90 1	3	10
Tin ppm ASTM D5185m >5 <1	2	1
Vanadium ppm ASTM D5185m <1	0	<1
White Metal scalar *Visual NONE NONE	NONE	NONE
Yellow Metal scalar *Visual NONE NONE	NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m >35 9	10	21
Potassium ppm ASTM D5185m >20 3	4	<1
There is no indication of any contamination in the oil. Fuel WC Method >3.0 <1.0	<1.0	<1.0
Water WC Method >0.2 NEG	NEG	NEG
Glycol WC Method NEG	NEG	NEG
Soot % % *ASTM D7844 >7.5 1.2	1.2	1.4
Nitration Abs/cm *ASTM D7624 >20 12.7	9.4	10.4
Sulfation Abs/.1mm *ASTM D7415 >30 24.9	21.4	22.4
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	NORML	NORMI
Odor scalar *Visual NORML NORML	NORML	NORML
Emulsified Water scalar *Visual >0.2 NEG	NEG	NEG
LUID CONDITION Sodium ppm ASTM D5185m 6	6	
	6	5
The RN result indicates that there is suitable alkalinity remaining in the	44	0
III. The condition of the oil is suitable for further service	57	62
	1 888	<1 940
	965	1192
··	933	1010
	1137	1296
Sulfur ppm ASTM D5185m 2060 4094 Oxidation Abs/.1mm *ASTM D7414 >25 20.8	3156	3219
	16.1	18.3
Page Number (DN) mg (OUI) ACTM DOOG O.C.	8.7 14.5	7.2 14.0
Base Number (BN) mg KOH/g ASTM D2896 9.8 6.7 Visc @ 100°C cSt ASTM D445 15.4 14.2		1/1 (1







Certificate L2367

Laboratory Sample No.

: GFL0082425

Lab Number : 06215579 Unique Number : 11088443 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 : 21 Jun 2024

Tested Diagnosed

: 21 Jun 2024 - Wes Davis

GFL Environmental - 007 - Brunswick 2809 Galloway Road

Bolivia, NC US 28422

Contact: DONALD CRAVEN

dcraven@gflenv.com T:

F: (910)253-4179

* - 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)