WEAR CONTAMINATION **FLUID CONDITION**

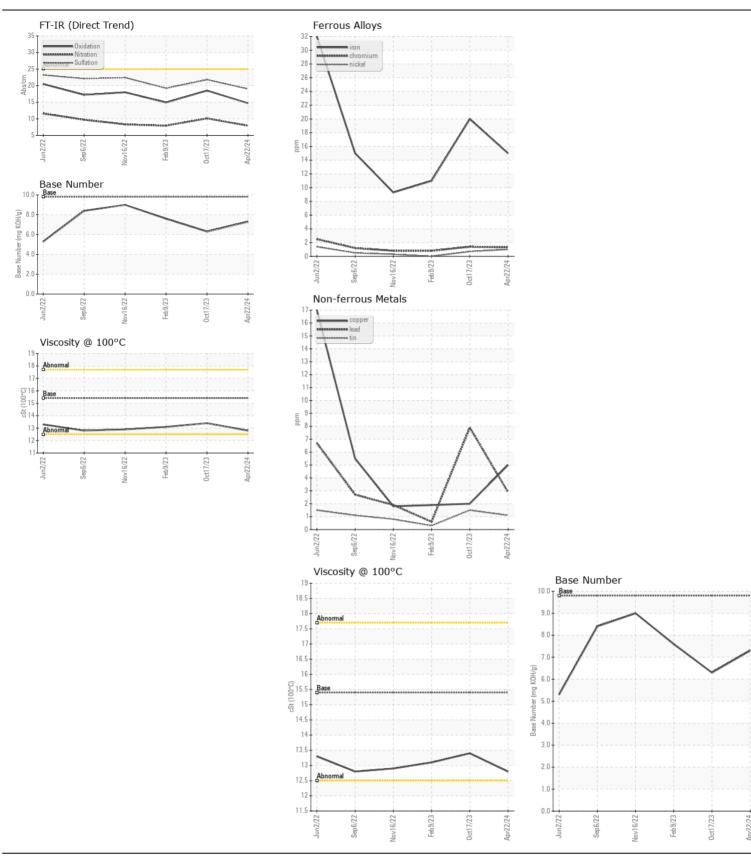
NORMAL NORMAL NORMAL

Machine Id

828038

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110170	GFL0085571	GFL006044
	Sample Date		Client Info		22 Apr 2024	17 Oct 2023	09 Feb 202
	Machine Age	hrs	Client Info		13626	12487	10943
	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	>110	15	20	11
	Chromium	ppm	ASTM D5185m	>4	1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	<1
	Lead	ppm	ASTM D5185m	>45	3	8	<1
	Copper	ppm	ASTM D5185m	>85	5	2	2
	Tin	ppm	ASTM D5185m		1	2	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	>30	7	13	8
ONTAMINATION	Potassium	ppm	ASTM D5185m		1	2	2
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	10.1	7.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	21.8	19.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION	Codium	nnm	ACTM DE10Em		E	0	۰
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	Λ	5 3	8	3
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	<1
	Molybdenum	ppm ppm	ASTM D5185m		58	66	59
	Manganese		ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		946	1071	877
	Calcium	ppm	ASTM D5185m		1069	1194	1097
	Phosphorus	ppm	ASTM D5185m		1227	1139	972
	Zinc		ASTM D5185m		1227	1506	1172
	Sulfur	ppm	ASTM D5185m		3656	2872	2775
	Oxidation	Abs/.1mm	*ASTM D7414		14.7	18.5	14.9
	Base Number (BN)		ASTM D2896		7.3	6.3	7.6
	Dase Mullipel (DIV)	IIIU INUII/U	HOTIVI DE030	0.0	1.3	0.0	7.0







Certificate L2367

Laboratory Sample No.

: GFL0110170 Lab Number : 06161132 Unique Number: 10996555 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024

Tested : 29 Apr 2024 Diagnosed

: 29 Apr 2024 - Wes Davis

GFL Environmental - 660 - Lynchburg Hauling

2410 Mayflower Drive Lynchburg, VA US 24501

Contact: Delbert Beasley dbeasley@countyrecycling.net

T: (434)665-5998

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)

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