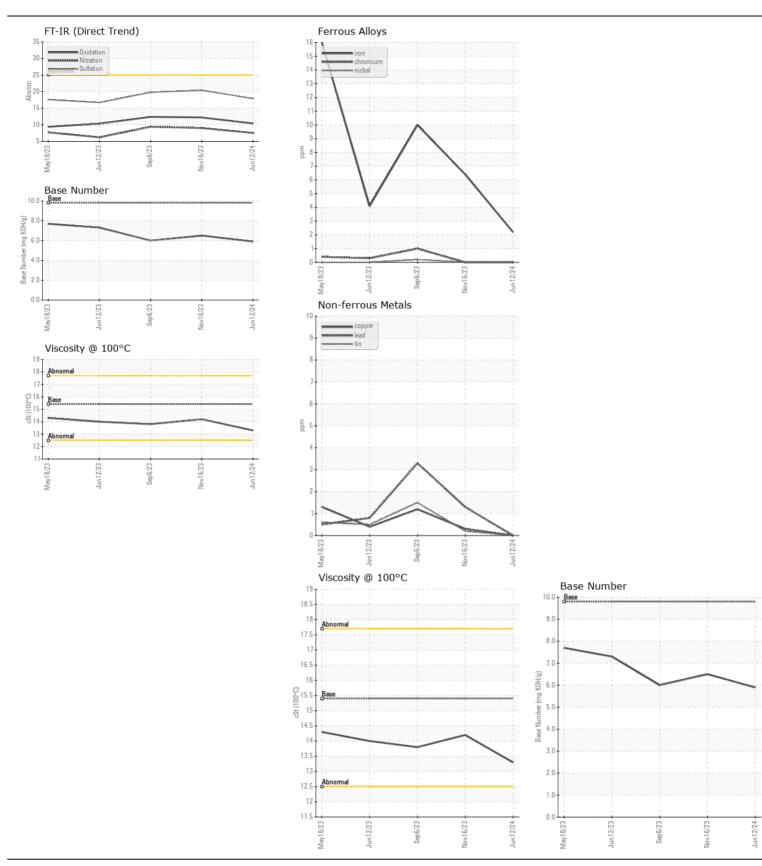
**WEAR** CONTAMINATION **FLUID CONDITION**  NORMAL **NORMAL NORMAL** 

Machine Id

427184 - SW4724

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0123528	GFL0094126	GFL008940
Resample at the next service interval to monitor. ( Customer Sample Comment: Engine )	Sample Date		Client Info		12 Jun 2024	16 Nov 2023	06 Sep 202
	Machine Age	mls	Client Info		358831	363621	336922
	Oil Age	mls	Client Info		358831	363621	336922
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<b>\100</b>	2	6	10
WEAT	Chromium	ppm	ASTM D5185m		0	0	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m	7 7	0	0	<1
	Silver	ppm	ASTM D5185m	<b>\3</b>	0	0	<1
	Aluminum	ppm	ASTM D5185m		<1	1	<1
	Lead	ppm	ASTM D5185m		0	1	3
	Copper	ppm	ASTM D5185m		0	<1	1
	Tin	ppm	ASTM D5185m		0	<1	2
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaan		ACTM DE10Em	. 05	4	6	0
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		4	6 2	8
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 2	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	9.0	9.4
	Sulfation	Abs/.1mm	*ASTM D7415		17.9	20.4	19.8
	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
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
THUR CONDITION	0 - 45		AOTA DEADE				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	2	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0 49	0 43	44
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		0	<1 <1	
	Manganese	ppm			20		1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		20 2704	30 2381	29 2188
	Phosphorus	ppm	ASTM D5185m		1095	1096	1017
	Zinc	ppm	ASTM D5185m		1338	1193	1231
	Sulfur	ppm	ASTM D5185m		3721	2871	3475
	Oxidation	Abs/.1mm	*ASTM D7414		10.4	12.2	12.4
	Base Number (BN)		ASTM D7414 ASTM D2896		5.9	6.5	6.0
	DOSE INDITION (DIVI	IIIU KUII/U	MOTIVI DE030	0.0	J.J	0.5	0.0







Certificate L2367

Report Id: GFL983 [WUSCAR] 06213214 (Generated: 06/21/2024 19:53:03) Rev: 1

Laboratory Sample No.

: GFL0123528 Lab Number : 06213214 Unique Number : 11086078 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 20 Jun 2024 - Don Baldridge

GFL Environmental - 983 - Sugar Land Hauling

16011 West Belfort Street Sugar Land, TX US 77498

Contact: Adrian Martinez adrianmartinez@gflenv.com

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)

T:

F: