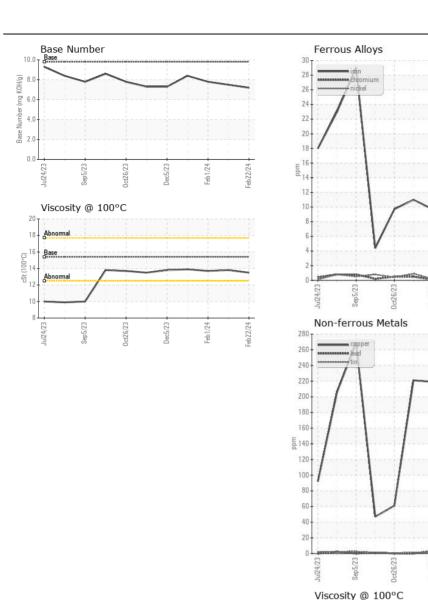
**WEAR** CONTAMINATION **FLUID CONDITION** 

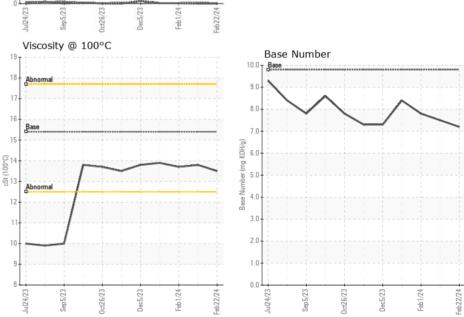
**NORMAL NORMAL NORMAL** 

Machine Id 414050

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0110909	GFL0110891	GFL011091
	Sample Date		Client Info		22 Feb 2024	21 Feb 2024	01 Feb 202
	Machine Age	hrs	Client Info		1482	1423	1339
	Oil Age	hrs	Client Info		143	84	135
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	<b>\100</b>	8	12	8
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	3	3
	Titanium	ppm	ASTM D5185m	77	0	<1	<1
	Silver	ppm	ASTM D5185m	<b>\3</b>	<1	<1	<1
	Aluminum	ppm	ASTM D5185m		4	4	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		31	36	33
	Tin	ppm	ASTM D5185m		<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ACTA DE10E	05		0	
CONTAMINATION	Potassium	ppm	ASTM D5185m ASTM D5185m		6 8	8 11	6 7
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		7.9	7.7	6.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	19.7	19.3
	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	NORMI
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	2	1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		16	13	18
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		63	70	63
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		912	913	914
	Calcium	ppm	ASTM D5185m		1036	1055	1075
	Phosphorus	ppm	ASTM D5185m		1007	987	1078
	Zinc	ppm	ASTM D5185m		1208	1177	1143
	Sulfur Oxidation	ppm Abo/ 1mm	*ASTM D5185m		2772	2956	3151
	Base Number (BN)	Abs/.1mm			15.9 7.2	15.6 7.5	15.3 7.8
				70			/.0







Certificate L2367

Laboratory Sample No.

: GFL0110909 Lab Number : 06104968 Unique Number: 10903198 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 : 29 Feb 2024 **Tested** : 01 Mar 2024

Diagnosed

: 01 Mar 2024 - Wes Davis

GFL Environmental - 814 - Little Rock Hauling 4005 Hwy 161 N. Little Rock, AR

US 72117 Contact: Nicole Walls

nwalls@gflenv.com T:

\* - 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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