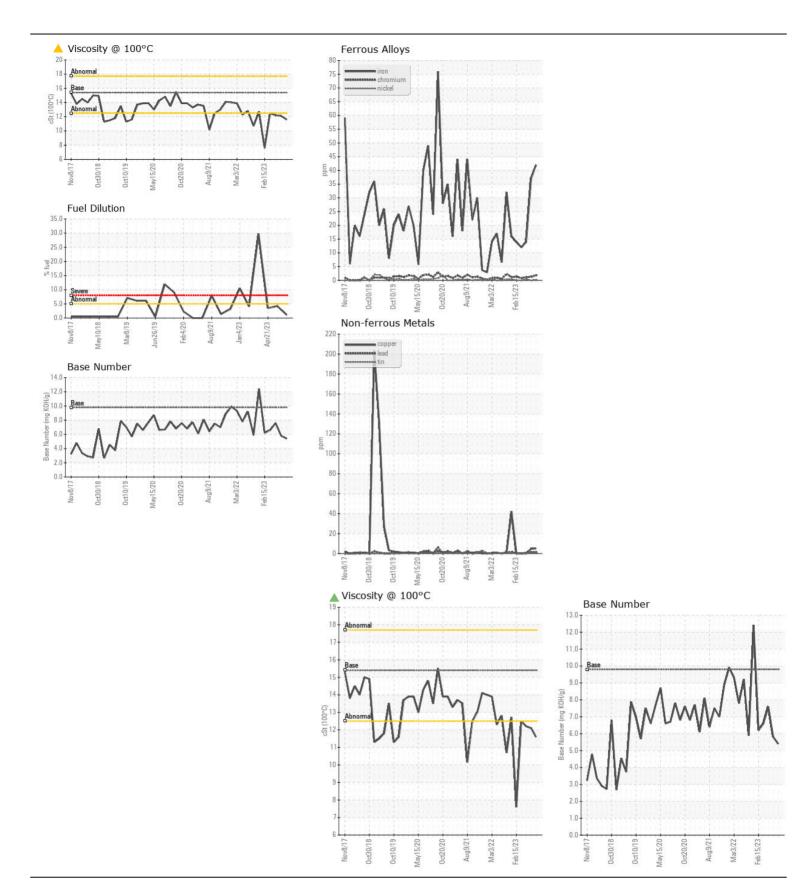
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

Machine Id 10533

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0074645	GFL0074617	GFL007459
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		17 Jan 2024	11 Jan 2024	09 May 202
	Machine Age	hrs	Client Info		14826	14789	13673
	Oil Age	hrs	Client Info		602	565	18166
	Filter Age	hrs	Client Info		602	565	18166
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ATTENTION	NORMAL	MARGINA
VEAR	Iron	ppm	ASTM D5185m	>100	42	37	14
	Chromium	ppm	ASTM D5185m		2	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		7	6	2
	Lead	ppm	ASTM D5185m		1	1	<1
	Copper	ppm	ASTM D5185m	>330	5	5	0
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11	10	6
	Potassium	ppm	ASTM D5185m	>20	5	3	6
Fuel content negligible. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>5	1.1	<1.0	<u>4.2</u>
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.6	11.5	9.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	22.0	20.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		7	7	17
The cit vice coity is leaves then permet. The DNI recent indicates that	Boron	ppm	ASTM D5185m		40	32	7
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		96	87	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	771	674	887
	Calcium	ppm	ASTM D5185m		1365	1249	1031
	Phosphorus	ppm	ASTM D5185m		862	826	970
	Zinc	ppm	ASTM D5185m		1066	949	1205
	Sulfur	ppm	ASTM D5185m		3012	2610	3275
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		23.2 5.4	22.3 5.8	16.5 7.6







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

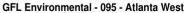
: GFL0074645 : 06065454

: 10836836

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024 Diagnosed : 23 Jan 2024 Diagnostician : Sean Felton

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) 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)



2699 Cochran Industrial Blvd Douglasville, GA US 30127-1332 Contact: Darrell Welch darrell.welch@gflenv.com T: (800)207-6618