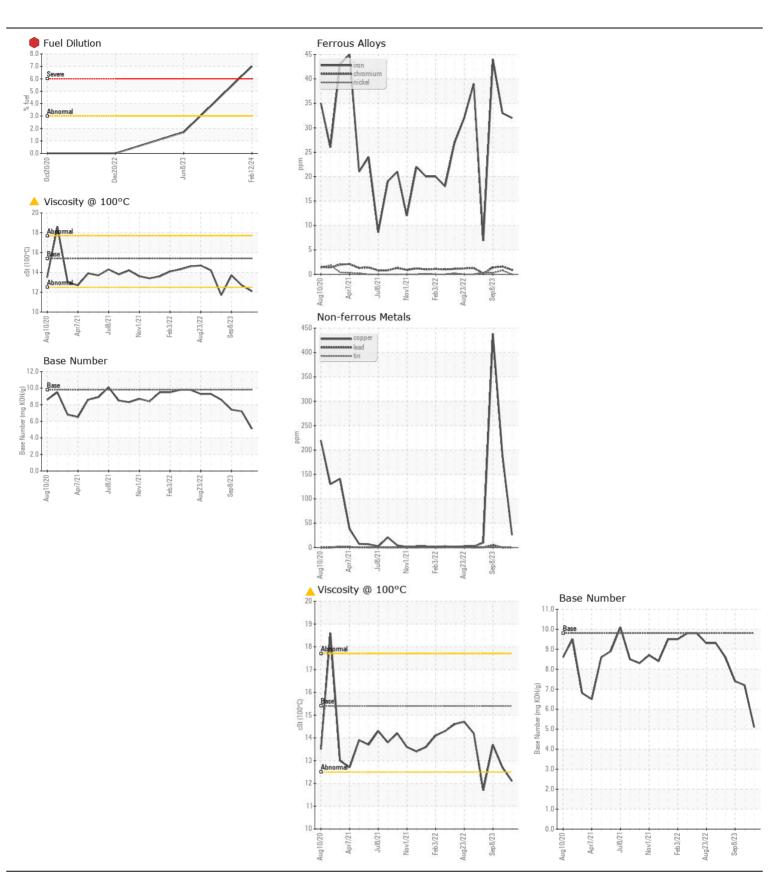
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

810015 AUTOCAR L9

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	JOIN	Client Info		GFL0103205	GFL0094756	GFL0089289
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		12 Feb 2024	25 Nov 2023	08 Sep 2023
	Machine Age	hrs	Client Info		9432	8834	8275
	Oil Age	hrs	Client Info		598	1185	626
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Change
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	NORMAL	ABNORMAL
WEAD	luon.		ACTM DE10Em	. 00	00	22	4.4
WEAR	Iron	ppm	ASTM D5185m		32	33	44
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1 0	2	1 .4
		ppm	ASTM D5185m		-	<1	<1
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		0	<1	<1
		ppm			0	0 7	0
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		7 0	<1	5
	Copper	ppm	ASTM D5185m		26	189	△ 438
	Tin	ppm	ASTM D5185m		0	<1	1
	Vanadium	ppm	ASTM D5185m	>15	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	8	14
There is a bind analyst of first manager in the ail. Tests confirms the	Potassium	ppm	ASTM D5185m	>20	7	9	20
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>3.0	7.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	1	1	1.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.3	9.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.1	20.3	19.6
	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
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	4	6
	Boron	ppm	ASTM D5185m	0	<1	<1	0
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m	0	8	1	0
	Molybdenum	ppm	ASTM D5185m	60	54	59	60
	Manganese	ppm	ASTM D5185m	0	0	1	1
	Magnesium	ppm	ASTM D5185m	1010	799	911	982
	Calcium	ppm	ASTM D5185m	1070	916	1078	1261
	Phosphorus	ppm	ASTM D5185m		799	918	1068
	Zinc	ppm	ASTM D5185m		1031	1183	1342
	Sulfur	ppm	ASTM D5185m	2060	2502	2969	3569
			* 4 O T 1 A D T 1 1 1	0.5	100	4 - 7	4 = 0
	Oxidation	Abs/.1mm	*ASTM D7414		16.2	15.7	15.0
	Oxidation Base Number (BN) Visc @ 100°C			9.8	5.1 12.1	7.2 12.7	7.4 13.7







Certificate L2367

Report Id: GFL001 [WUSCAR] 06088495 (Generated: 02/15/2024 10:32:45) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: GFL0103205 Lab Number : 06088495 Unique Number : 10875940

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

Received **Tested**

: 15 Feb 2024 Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 15 Feb 2024 - Wes Davis

: 14 Feb 2024

GFL Environmental - 001 - Raleigh(CNG) 3741 Conquest Drive Garner, NC US 27529

Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

* - 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)

F: (919)662-7130