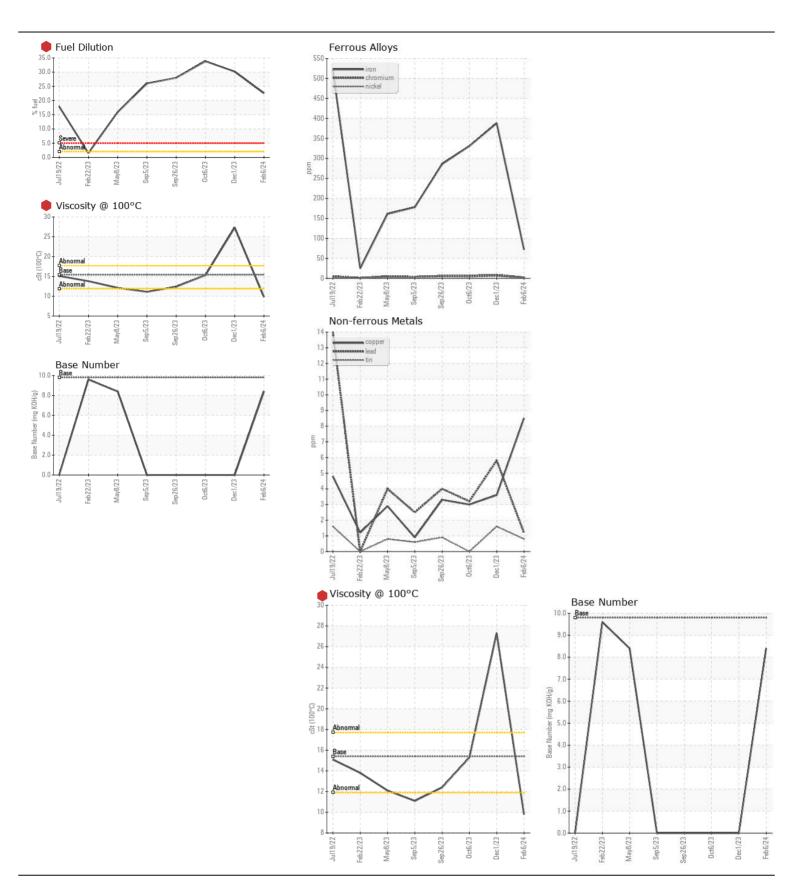
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL SEVERE SEVERE**

Machine Id **722011-1169**

Component
Diesel Engine

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. Test UOM Method Limit/Abn Current Sample Number Client Info GFL0110358 GFL01 Sample Date Client Info 06 Feb 2024 01 De Machine Age hrs Client Info 12522 1233 Oil Age hrs Client Info 631 1227 Filter Age hrs Client Info Changed Not C	02787	
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 Sample Date Client Info 06 Feb 2024 12522 Oil Age hrs Client Info 631 1227 Filter Age hrs Client Info 631 60	2023	
resample to monitor this condition. Machine Age hrs Client Info Oil Age hrs Client Info 631 12522 1233 Filter Age hrs Client Info 631 60		, 00 001
Filter Age hrs Client Info 631 1227 60		12275
Filter Age hrs Client Info 60	;	384
		384
Filter Changed Client Info Changed Not C	U	
Sample Status SEVERE SEV	0	SEVE
WEAR Iron ppm ASTM D5185m >100 72 ● 38	ο	a 331
	,	6
All component wear rates are normal. Chromium ppm ASTM D5185m >20 2 9 Nickel ppm ASTM D5185m >4 1 5		4
Titanium ppm ASTM D5185m 0 0		0
Silver ppm ASTM D5185m >3 0 0		0
Aluminum ppm ASTM D5185m >20 7 15		12
Lead ppm ASTM D5185m >40 1 6		3
Copper ppm ASTM D5185m >330 8 4		3
Tin ppm ASTM D5185m >15 <1 2		0
Vanadium ppm ASTM D5185m 0 <1		0
	NE	NO
	NE	NO
CONTAMINATION Silicon ppm ASTM D5185m >25 4 12		11
		<1
There is a high amount of fuel present in the oil. Tests confirm the Fuel % ASTM D3524 >2.0 22.6	2	33.8
presence of fuel in the oil. Water WC Method >0.2 NEG NI		NE(
Glycol WC Method NEG NI		NE
Soot %		1. 3
Nitration Abs/cm *ASTM D7624 > 20 13.7 57		44.
Sulfation Abs/.1mm *ASTM D7415 >30 25.5 85		73.4
	NE	NO
	NE	NO
	NE	NO
	RML	. NOI
Odor scalar *Visual NORML NORML NO	RML	. NOI
Emulsified Water scalar *Visual >0.2 NEG NI	G	NE
FLUID CONDITION Sodium ppm ASTM D5185m 2 2		78
Boron ppm ASTM D5185m 0 4 9		8
The BN regult indicates that there is quitable alkalinity remaining in the		0
Barilim nom ASIMIDAIRAM ()		66
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no		2
oil Fuel is present in the oil and is lowering the viscosity. The oil is no		630
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. Molybdenum ppm ASTM D5185m 60 53 66	3	
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. Molybdenum ppm ASTM D5185m 60 53 66		773
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. Molybdenum ppm ASTM D5185m 60 53 66	5	773 662
bil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. Molybdenum	5	
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. Molybdenum ppm ASTM D5185m 60 53 66	5 0 6	662
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. Molybdenum ppm ASTM D5185m 60 53 66	5 0 6	662 818
bil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. Molybdenum ppm ASTM D5185m 60 53 66	5 0 6 78 6.8	662 818 190







Laboratory Sample No.

Lab Number : 06089350

: GFL0110358

Unique Number : 10876795

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686 Contact: GARY BREWER

Test Package : FLEET (Additional Tests: PercentFuel) Certificate L2367 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: