WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

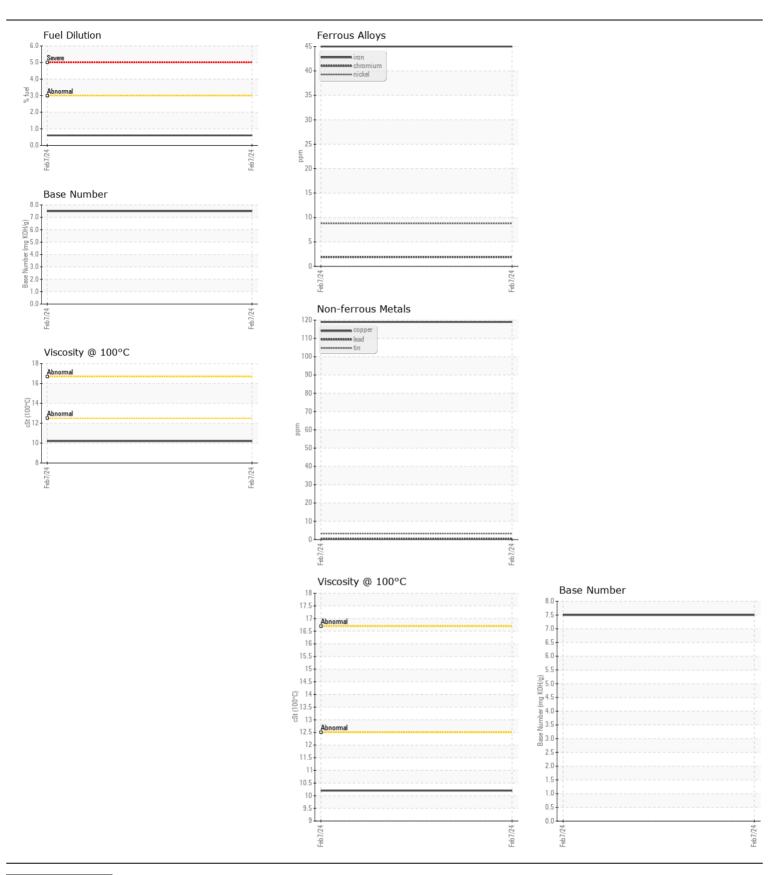
Machine Id

414086

Component

1 Diesel Engine

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{not provided} (40 QTS)							
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		GFL0108419		
	Sample Date	laua	Client Info		07 Feb 2024		
	Machine Age	hrs	Client Info		550		
	Oil Age	hrs	Client Info		550 550		
	Filter Age Oil Changed	hrs	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Olletti IIIIO		NORMAL		
					·····		
WEAR	Iron	ppm	ASTM D5185m	>120	45		
	Chromium	ppm	ASTM D5185m	>20	2		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	9		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	1		
	Aluminum	ppm	ASTM D5185m	>20	10		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	119		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon		ACTM DE10Em	. 05	70	[
CONTAMINATION		ppm	ASTM D5185m ASTM D5185m		73 28		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium Fuel	ppm %	ASTM D3763111		0.6		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	<i>></i> 0.2	NEG		
	Soot %	%	*ASTM D7844	\4	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.3		
	Sulfation	Abs/.1mm	*ASTM D7415		23.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		240		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		126		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		769		
	Calcium	ppm	ASTM D5185m		1478		
	Phosphorus	ppm	ASTM D5185m		778 066		
	Zinc Sulfur	ppm	ASTM D5185m		966		
	Oxidation	ppm Abs/1mm	*ASTM D5185m	> 2F	2440 21.5		
	Base Number (BN)	Abs/.1mm	ASTM D7414 ASTM D2896	>20	7.5		
	Visc @ 100°C	cSt	ASTM D2696 ASTM D445		10.2		
	V130 @ 100 U	COL	ACTIVI D443		10.2	-	-







Laboratory Sample No.

Lab Number : 06085258 Unique Number : 10872703

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108419 Received : 09 Feb 2024 **Tested**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnosed

: 13 Feb 2024 : 13 Feb 2024 - Jonathan Hester 630 E Industrial Drive Hartland, WI US 53029

GFL Environmental - 918 - Hartland HC

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: David McCall To discuss this sample report, contact Customer Service at 1-800-237-1369. david.mccall@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (262)369-3069