WEAR CONTAMINATION **FLUID CONDITION**

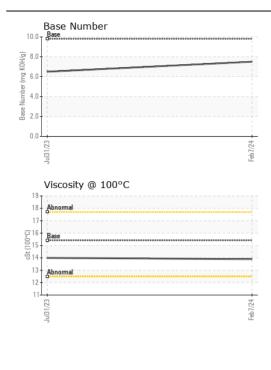
NORMAL NORMAL NORMAL

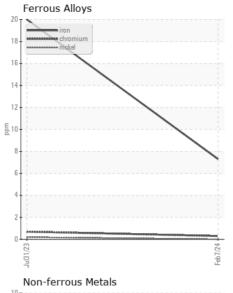


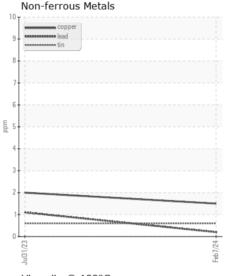
920114-1475

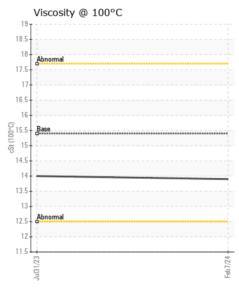
Component Diesel Engine

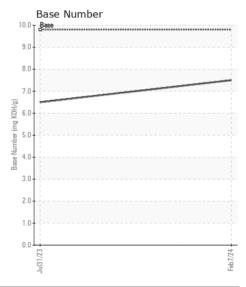
RECOMMENDATION	Toot	LIONA	Motherd	Limit/Ala.	(C	Lliotomid	Hotom
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History ²
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0103560	GFL0085364	
	Sample Date		Client Info		07 Feb 2024	31 Jul 2023	
	Machine Age	mls	Client Info		92568	82102	
	Oil Age	mls	Client Info		92568	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	\120	7	20	
VEAIT	Chromium	ppm	ASTM D5185m		, <1	<1	
All component wear rates are normal.	Nickel		ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver		ASTM D5185m			0	
	Aluminum	ppm	ASTM D5185m		<1	3	
		ppm			1		
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 2	1 2	
	Copper Tin	ppm	ASTM D5185m				
	Vanadium	ppm		>10	<1 0	<1 0	
		ppm	ASTM D5185m	NONE			
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	2	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.5	0.8	
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	22.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	6	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	0	1	2	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m	60	58	59	
	Manganese	ppm	ASTM D5185m	0	<1	<1	
	Magnesium	ppm	ASTM D5185m	1010	1006	946	
	Calcium	ppm	ASTM D5185m	1070	1049	1080	
	Phosphorus	ppm	ASTM D5185m	1150	1015	953	
	Zinc	ppm	ASTM D5185m	1270	1240	1229	
	Sulfur	ppm	ASTM D5185m	2060	2832	2692	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	19.3	
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	6.5	
	Visc @ 100°C	cSt	ASTM D445		13.9	14.0	













Certificate L2367

Laboratory Sample No.

: GFL0103560 Lab Number : 06089309 Unique Number : 10876754 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 : 14 Feb 2024 **Tested** : 15 Feb 2024

Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 958A - Chillicothe Wigand 19908 N. State Rd 29

Chillicothe, IL US 61523 Contact: Bryan Link

blink@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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