WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

(EIB906)

3665 Component

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LIIIIII/ADII	GFL0103402	GFL0072145	GFL0072139
	Sample Date		Client Info		08 Jul 2024	25 Apr 2024	17 Apr 202
	Machine Age	hrs	Client Info		21040	20678	20643
	Oil Age	hrs	Client Info		154	387	344
	Filter Age	hrs	Client Info		154	387	344
	Oil Changed		Client Info		Changed	Changed	Not Chang
	Filter Changed		Client Info		Changed	Not Changd	Not Chang
	Sample Status				SEVERE	SEVERE	SEVERE
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WEAR	Iron	ppm	ASTM D5185m		9	26	21
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	2	1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m		3	5	2
	Lead	ppm	ASTM D5185m		<1	2	0
	Copper	ppm	ASTM D5185m		2	2	3
	Tin	ppm	ASTM D5185m	>4	<1	1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	16	12
	Potassium	ppm	ASTM D5185m		4	5	<1
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524		▲ 8.9	▲ 17.8	▲ 15.2
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.3	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	8.8	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.5	18.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	0	125	38	34
FLUID CONDITION	D	ppm	ASTM D5185m	0	5	4	5
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the	Boron		AOTAL DELOE	0			3
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	Barium	ppm	ASTM D5185m		0 62	0	
The BN result indicates that there is suitable alkalinity remaining in the	Barium Molybdenum	ppm	ASTM D5185m	60	63	54	50
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	Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m	60	63 <1	54 <1	50
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	Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010	63 <1 891	54 <1 771	50 1 768
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	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070	63 <1 891 1030	54 <1 771 958	50 1 768 911
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	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070 1150	63 <1 891 1030 967	54 <1 771 958 888	50 1 768 911 829
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	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070 1150 1270	63 <1 891 1030 967 1179	54 <1 771 958 888 999	50 1 768 911 829 982
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	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070 1150 1270 2060	63 <1 891 1030 967	54 <1 771 958 888	50 1 768 911 829

Base Number (BN) mg KOH/g ASTM D2896 9.8

ASTM D445 15.4

Visc @ 100°C cSt

6.7

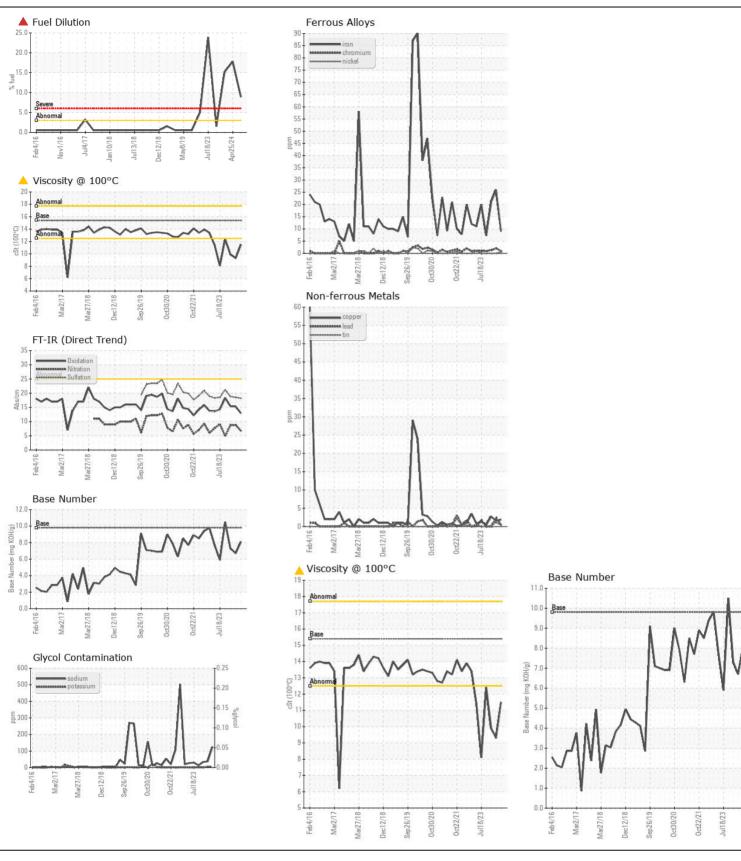
9.3

8.1

11.5

9.9

7.3







Certificate L2367

Laboratory Sample No.

Lab Number : 06232130 Unique Number: 11115623

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103402

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

Received **Tested** Diagnosed

: 12 Jul 2024 Test Package: FLEET (Additional Tests: Glycol, PercentFuel)

: 12 Jul 2024 - Sean Felton

: 10 Jul 2024

US 30125 Contact: WILLIAM FOSTER william.foster@gflenv.com T: (800)207-6618

2097 Buchanan Highway

Cedartown, GA

GFL Environmental - 094 - Cedartown

* - 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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