WEAR CONTAMINATION FLUID CONDITION

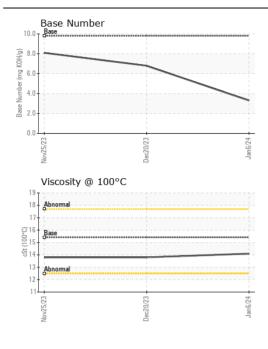
NORMAL NORMAL

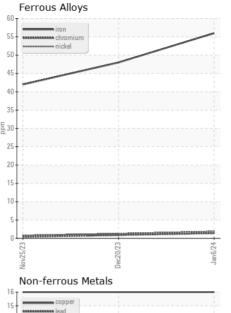
Machine Id

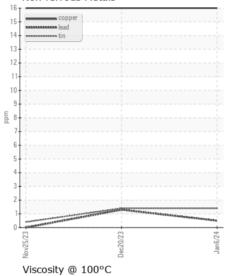
834094

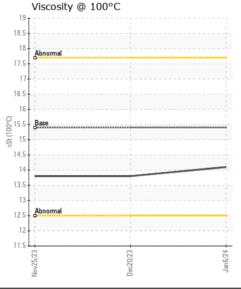
Diesel Engine

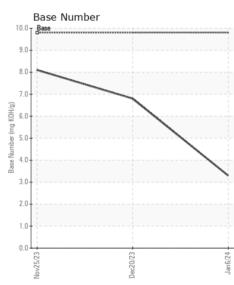
RECOMMENDATION  Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0108088	GFL0102477	GFL0102537
	Sample Date		Client Info		06 Jan 2024	20 Dec 2023	25 Nov 202
	Machine Age	hrs	Client Info		593	285	139
	Oil Age	hrs	Client Info		285	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	N/A
	Filter Changed		Client Info		Not Changd	Not Changd	N/A
	Sample Status				NORMAL	ABNORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	56	48	42
	Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		2	1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		26	13	9
	Lead	ppm	ASTM D5185m	>40	<1	1	0
	Copper	ppm	ASTM D5185m	>330	16	16	16
	Tin	ppm	ASTM D5185m	>15	1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	32	35	34
CHIAMMATION	Potassium	ppm	ASTM D5185m		99	<u></u> 60	<u></u> 58
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0	0.1	0
	Nitration	Abs/cm	*ASTM D7624		12.0	10.5	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	20.4	20.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	6	8
LOID CONDITION	Boron	ppm	ASTM D5185m	0	17	32	47
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1	2	9
	Molybdenum	ppm	ASTM D5185m		60	57	56
	Manganese	ppm	ASTM D5185m		13	13	12
	Magnesium	ppm	ASTM D5185m		782	821	694
	Calcium	ppm	ASTM D5185m		1141	1169	1144
	Phosphorus	ppm	ASTM D5185m		702	820	717
	Zinc	ppm	ASTM D5185m		919	977	847
	Sulfur	ppm	ASTM D5185m		2329	2596	2510
	Oxidation	Abs/.1mm	*ASTM D7414		20.8	18.0	17.6
	Base Number (BN)		ASTM D2896		3.3	6.8	8.1













Certificate L2367

Laboratory Sample No.

: GFL0108088 Lab Number : 06088015 Unique Number : 10875460

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

Diagnosed Test Package : FLEET

: 13 Feb 2024 : 14 Feb 2024 : 14 Feb 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS 22820 S State Route 291

Harrisonville, MO US 64701

Contact: JOHNNY PEREZ

johnny.perez@gflenv.com T:

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)

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