WEAR CONTAMINATION FLUID CONDITION

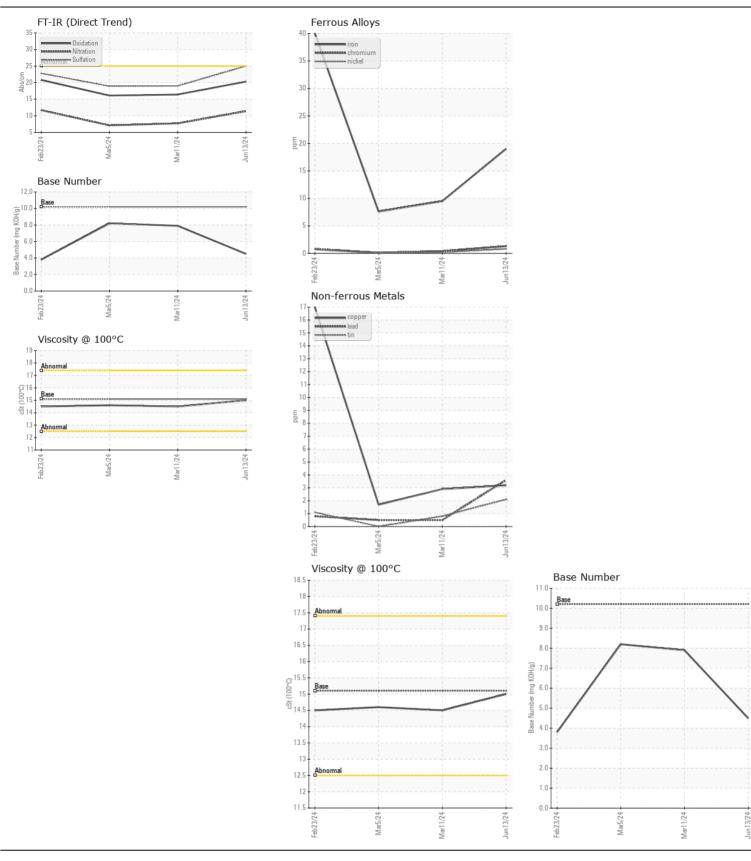
NORMAL NORMAL

Machine Id

434025

Natural Gas Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0125238	GFL0114452	GFL0114450
	Sample Date		Client Info		13 Jun 2024	11 Mar 2024	05 Mar 202
	Machine Age	mls	Client Info		23867	720	684
	Oil Age	mls	Client Info		0	720	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Not Changd	Not Chang
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	19	10	8
	Chromium	ppm	ASTM D5185m		1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		16	7	4
	Lead	ppm	ASTM D5185m		4	<1	<1
	Copper	ppm	ASTM D5185m	>35	3	3	2
	Tin	ppm	ASTM D5185m	>4	2	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	8	6	4
Elevated aluminum (AI) 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.	Potassium	ppm	ASTM D5185m		54	24	15
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	7.7	7.1
	Sulfation	Abs/.1mm	*ASTM D7415		25.0	19.0	18.9
	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	3	4
	Boron	ppm	ASTM D5185m	50	10	26	28
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	5	0	2	0
	Molybdenum	ppm	ASTM D5185m		59	55	48
	Manganese	ppm	ASTM D5185m	0	2	1	1
	Magnesium	ppm	ASTM D5185m	560	689	595	615
	Calcium	ppm	ASTM D5185m	1510	1770	1513	1534
	Phosphorus	ppm	ASTM D5185m	780	879	699	822
	Zinc	ppm	ASTM D5185m	870	1127	953	976
	Sulfur	ppm	ASTM D5185m	2040	3154	2455	2986
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	16.4	16.1
	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.5	7.9	8.2





Certificate L2367

Laboratory Sample No.

: GFL0125238 Lab Number : 06217574 Unique Number : 11090438 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed : 24 Jun 2024 - Wes Davis

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX

US 77050 Contact: Saul Castillo saul.castillo@gflenv.com

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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F: