WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL ABNORMAL

(TFY1477) Machine Id

934058

Natural Gas Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. ( Customer Sample Comment: Sample )	Sample Number		Client Info		GFL0125244	GFL0117806	GFL01177
	Sample Date		Client Info		21 Jun 2024	08 May 2024	24 Apr 20
	Machine Age	hrs	Client Info		2577	2214	2107
	Oil Age	hrs	Client Info		0	207	489
	Filter Age	hrs	Client Info		0	207	489
	Oil Changed		Client Info		Not Changd	Changed	N/A
	Filter Changed		Client Info		Not Changd	Changed	None
	Sample Status				ABNORMAL	NORMAL	NORMA
VEAR	Iron	ppm	ASTM D5185m	>50	<b>48</b>	10	14
	Chromium	ppm	ASTM D5185m		<1	<1	2
Tin, aluminum and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Piston wear is indicated.	Nickel	ppm	ASTM D5185m		<1	0	2
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>9	<u> </u>	8	11
	Lead	ppm	ASTM D5185m	>30	9	0	<1
	Copper	ppm	ASTM D5185m	>35	10	3	2
	Tin	ppm	ASTM D5185m	>4	<b>△</b> 3	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	5	4	6
There is an abnormal level of sulfation indicated.	Potassium	ppm	ASTM D5185m	>20	9	22	40
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.2	0
	Nitration	Abs/cm	*ASTM D7624	>20	4.7	10.1	10.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>48.5</b>	22.0	21.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOR
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	8	7
The oil viscosity is lower than normal. The BN level is low. An additive depletion is indicated. The oil is no longer serviceable.	Boron	ppm	ASTM D5185m	50	70	14	5
	Barium	ppm	ASTM D5185m	5	<1	0	0
	Molybdenum	ppm	ASTM D5185m		<u>2</u>	53	56
	Manganese	ppm	ASTM D5185m	0	1	1	1
	Magnesium	ppm	ASTM D5185m	560	<b>19</b>	554	606
	Calcium	ppm	ASTM D5185m	1510	<b>104</b>	1572	185
	Phosphorus	ppm	ASTM D5185m	780	<b>296</b>	777	824
	Zinc	ppm	ASTM D5185m	870	<b>23</b>	944	109
	Sulfur	ppm	ASTM D5185m	2040	<b>1203</b>	2656	3259

Base Number (BN) mg KOH/g ASTM D2896 10.2

ASTM D445 15.1

Visc @ 100°C cSt

6.1

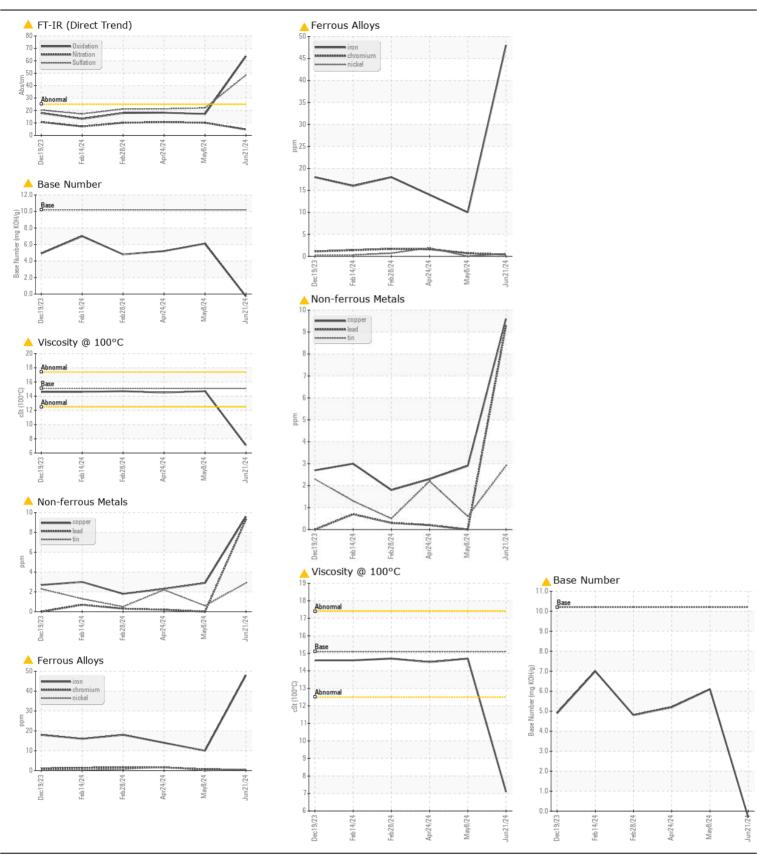
14.7

**-0.3** 

**▲ 7.1** 

5.2

14.5





Certificate L2367

Laboratory Sample No.

Lab Number : 06224231 Unique Number : 11102428

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : GFL0125244 **Tested** 

: 28 Jun 2024 : 01 Jul 2024 Diagnosed

: 01 Jul 2024 - Angela Borella

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

Contact: TECHNICIAN ACCOUNT wcgfldemo@gmail.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)

T:

F: