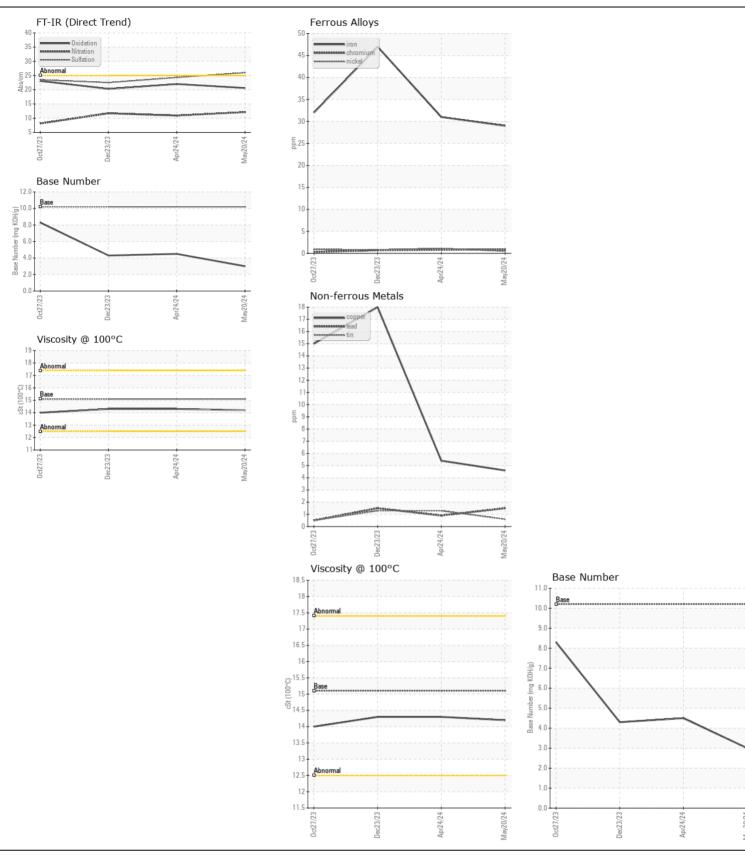
**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

(TLD5317)

733026

**Natural Gas Engine** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0117775	GFL0117746	GFL010054
	Sample Date		Client Info		20 May 2024	24 Apr 2024	23 Dec 202
	Machine Age	hrs	Client Info		1341	14014	580
	Oil Age	hrs	Client Info		761	0	201
	Filter Age	hrs	Client Info		761	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	29	31	47
	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	<1	1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		5	6	10
	Lead	ppm	ASTM D5185m	>30	2	<1	2
	Copper	ppm	ASTM D5185m	>35	5	5	18
	Tin	ppm	ASTM D5185m	>4	<1	1	1
	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	10	21	32
	Potassium	ppm	ASTM D5185m	>20	10	16	29
There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	12.1	10.9	11.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	24.3	22.5
	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		9	7	5
	Boron	ppm	ASTM D5185m	50	11	9	9
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	3	2
	Molybdenum	ppm	ASTM D5185m	50	62	52	52
	Manganese	ppm	ASTM D5185m	0	4	8	15
	Magnesium	ppm	ASTM D5185m	560	680	623	734
	Calcium	ppm	ASTM D5185m	1510	1863	1346	1267
	Phosphorus	ppm	ASTM D5185m	780	815	675	653
	Zinc	ppm	ASTM D5185m	870	1128	879	925
	Sulfur	ppm	ASTM D5185m	2040	3248	2399	2296
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	22.0	20.3
	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.0	4.5	4.3
	Visc @ 100°C	cSt	ASTM D445			14.3	14.3







Certificate L2367

Report Id: GFL865 [WUSCAR] 06193346 (Generated: 05/30/2024 08:47:14) Rev: 1

Laboratory Sample No.

Lab Number : 06193346 Unique Number : 11050098 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : GFL0117775 : 28 May 2024

**Tested** : 30 May 2024 : 30 May 2024 - Wes Davis Diagnosed

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX

US 77050

Contact: TECHNICIAN ACCOUNT wcgfldemo@gmail.com

\* - 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)

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

T: F: