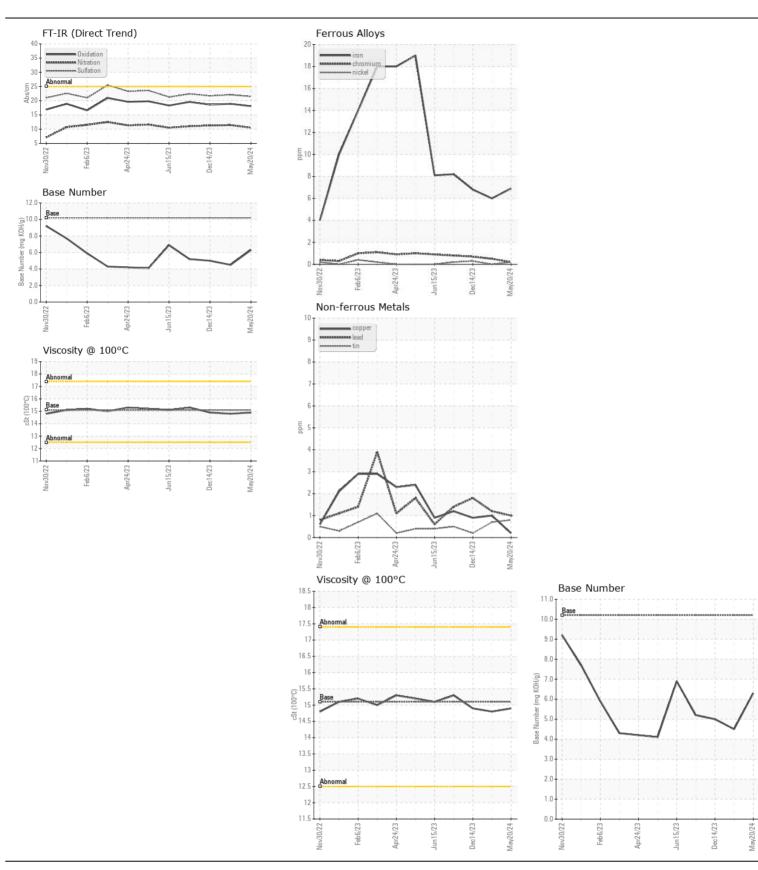
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id 732015

Natural Gas Engine

Test	UOM	Method	Limit/Abn		History1	History2
Sample Number		Client Info		Current GFL0121779	GFL0084578	GFL009205
Sample Date		Client Info		20 May 2024	28 Feb 2024	14 Dec 202
Machine Age	hrs	Client Info		-		26
Oil Age	hrs	Client Info		3304	600	26
Filter Age	hrs	Client Info			600	26
Oil Changed		Client Info			Changed	Changed
Filter Changed		Client Info		_	_	Changed
Sample Status				NORMAL	NORMAL	NORMAI
Iron	ppm	ASTM D5185m	>50	7	6	7
Chromium		ASTM D5185m	>4	<1	<1	<1
Nickel		ASTM D5185m	>2	<1	0	<1
Titanium		ASTM D5185m		0	0	0
Silver			>3	0	0	0
Aluminum	ppm			3	1	1
Lead		ASTM D5185m	>30	1	1	2
Copper	ppm	ASTM D5185m	>35	<1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONI
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONI
Silicon	ppm	ASTM D5185m	>+100	4	3	4
Potassium	ppm	ASTM D5185m	>20	7	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.5	11.4	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	22.1	21.7
Silt	scalar	*Visual	NONE	NONE	NONE	NON
Debris	scalar	*Visual	NONE	NONE	NONE	NONI
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
Odor	scalar	*Visual	NORML	NORML	NORML	NORN
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		7	6	6
Boron	ppm	ASTM D5185m	50	17	8	10
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	55	52	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	594	546	558
Calcium	ppm	ASTM D5185m	1510	1688	1607	1668
Phosphorus	ppm	ASTM D5185m	780	777	651	681
Zinc	ppm	ASTM D5185m	870	989	982	1019
Sulfur	ppm	ASTM D5185m	2040	2782	2286	2474
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	18.9	18.6
Base Number (BN)					4.5	5.0
	Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Water Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Soot % % Nitration Abs/cm Sulfation Abs/cm Scalar Calair Debris scalar Scalar Scalar Appearance scalar Odor scalar Appearance scalar Odor scalar Emulsified Water scalar Sodium ppm Molybdenum ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Sulfur ppm	Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Sample Status Client Info Sample Status Chromium ppm ASTM D5185m ASTM D7415 ASTM D5185m ASTM D5	Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status Iron ppm ASTM D5185m >50 Chromium ppm ASTM D5185m >2 Titanium ppm ASTM D5185m >3 Aluminum ppm ASTM D5185m >3 Aluminum ppm ASTM D5185m >3 Aluminum ppm ASTM D5185m >3 Copper ppm ASTM D5185m >30 Copper ppm ASTM D5185m >35 Tin ppm ASTM D5185m >35 Tin ppm ASTM D5185m >4 Vanadium ppm ASTM D5185m >10 Debris scalar *Visual NONE Silicon ppm ASTM D5185m >20 Water WC Method >0.1 Soot % % *ASTM D7844 Nitration Abs/cm *ASTM D7624 >20 Sulfation Abs/cm *ASTM D7624 >20 Sulfation Abs/cm *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NONE Sand/Dirt scalar *Visu	Machine Age hrs Client Info 6319 Oil Age hrs Client Info 3304 Filter Age hrs Client Info 3304 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status Client Info Changed Iron ppm ASTM D5185m >50 Chromium ppm ASTM D5185m >4 <1	Machine Age Oil Age hrs Inter Age Client Info Oil Age 6319 Ars 5741 Action Filter Age Oil Changed Filter Changed Sample Status Client Info Client Info Changed Changed Changed Changed Changed Changed Changed Changed NORMAL Changed Changed Changed NORMAL Changed Changed Changed NORMAL Iron ppm ASTM D5185m >50 7 6 Chromium ppm ASTM D5185m >4 <1







Certificate L2367

Laboratory Sample No.

Lab Number : 06193704 Unique Number : 11050456 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : GFL0121779 : 29 May 2024 **Tested**

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

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@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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