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

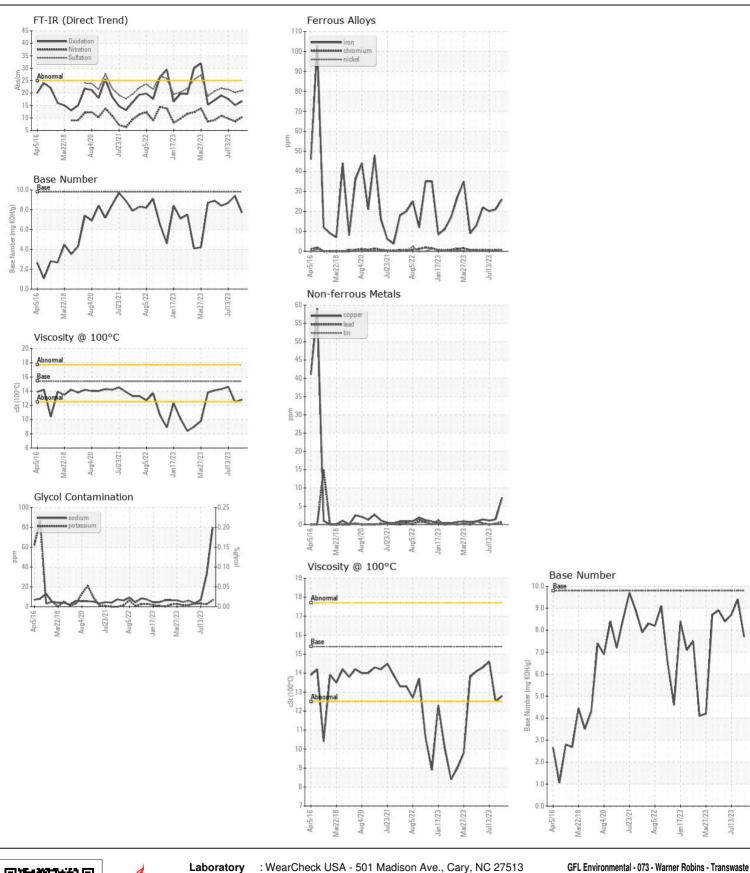
**NORMAL NORMAL ATTENTION** 

(DQZ235)

10587

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0068854	GFL0097239	GFL006918
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		05 Apr 2024	16 Nov 2023	13 Jul 202
	Machine Age	hrs	Client Info		2607	2028	1639
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ATTENTION	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	26	21	20
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	3	2
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>330	7	1	1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	7	10	7
	Potassium	ppm	ASTM D5185m		6	2	3
Sodium and/or potassium levels are high. Test for glycol is negative.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	<i>&gt;</i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	1	1	1
	Nitration	Abs/cm	*ASTM D7624	>20	10.3	8.6	9.7
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	20.2	21.4
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
LUB CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	<b>80</b>	33	7
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		4	<1	7
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		62	64	61
	Manganese	ppm	ASTM D5185m		<1 1020	<1	<1 868
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		1039 1122	925 1116	1053
	Phosphorus	ppm ppm	ASTM D5185m		1042	1056	969
	Zinc	ppm	ASTM D5185m		1342	1248	1159
	Sulfur	ppm	ASTM D5185m		3500	2593	2866
	Oxidation	Abs/.1mm	*ASTM D3163111		16.7	15.1	17.6
	Base Number (BN)				7.7	9.4	8.7
	במסט וינווווטטו (בווע)	mg nong	. 10 1111 D2000	0.0		U. T	0.7







Certificate L2367

Laboratory Sample No.

: GFL0068854 Lab Number : 06145716 Unique Number : 10970524

**Tested** 

Diagnosed Test Package : FLEET ( Additional Tests: Glycol )

Received

: 11 Apr 2024

: 16 Apr 2024

: 16 Apr 2024 - Jonathan Hester

\* - 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.

155 Story Road Warner Robins, GA US 31093

Contact: Mike Taft

T: F: