WEAR CONTAMINATION FLUID CONDITION

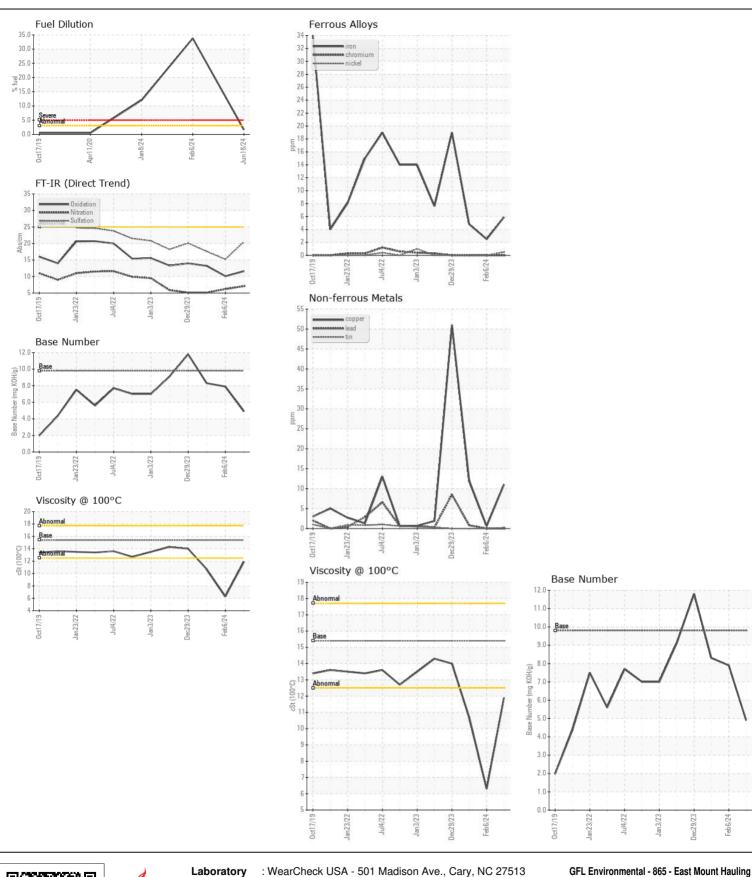
NORMAL NORMAL



Machine Id **427087-402443** 

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0125203	GFL0103996	GFL010055
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		18 Jun 2024	06 Feb 2024	08 Jan 202
	Machine Age	hrs	Client Info		338479	18460	18356
	Oil Age	hrs	Client Info		0	0	18356
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Chang
	Filter Changed		Client Info		Changed	Changed	Not Chang
	Sample Status				NORMAL	SEVERE	SEVERE
VEAD			40TH DE (05	400			
VEAR	Iron	ppm	ASTM D5185m		6	2	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		2	1	4
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		11	<1	12
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m	NONE	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	3	7
	Potassium	ppm	ASTM D5185m	>20	4	6	23
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>3.0	1.6	▲ 33.8	<b>12.0</b>
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>4	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.2	5.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	15.2	17.6
	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
LUD CONDITION	0 - 45		AOTA DE LOS				40
LUID CONDITION	Sodium	ppm	ASTM D5185m	0	3	1	19
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		14	4	34
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		12	28	55
	Manganese	ppm	ASTM D5185m		1	0	<1
	Magnesium	ppm	ASTM D5185m		82	452	723
	Calcium	ppm	ASTM D5185m		2434	951	1056
	Phosphorus	ppm	ASTM D5185m		947	680	940
	Zinc	ppm	ASTM D5185m		1177	829	1105
	Sulfur	ppm	ASTM D5185m		4210	2178	2866
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		11.6 4.9	10.1 7.9	13.2 8.3
	Dase Millimet (RM)	THE NUMBER	HOLIVI DZ896	7.0	4.9	7.9	0.3







Certificate L2367

Laboratory Sample No.

: GFL0125203 Lab Number : 06222974

Unique Number : 11101171

Received **Tested** Diagnosed Test Package: FLEET (Additional Tests: PercentFuel)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 27 Jun 2024

: 01 Jul 2024

: 01 Jul 2024 - Angela Borella

7213 East Mount Houston Road Houston, TX US 77050

Contact: Saul Castillo saul.castillo@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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