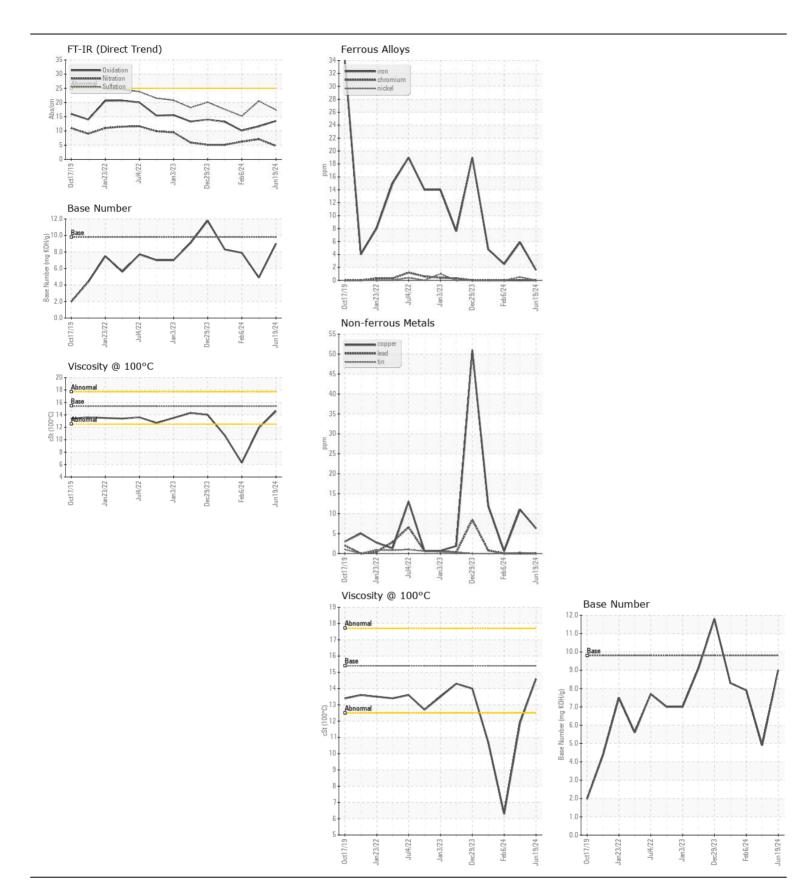


Machine Id **427087-402443**

Component
Diesel Engine

DECOMMENDATION.	T1	11014	Mada	Line Sci Air	(I Bakanis	11:-4
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)	Sample Number Sample Date		Client Info		GFL0125200 19 Jun 2024	GFL0125203 18 Jun 2024	GFL010399 06 Feb 202
	Machine Age	hrs	Client Info		18963	338479	18460
	Oil Age	hrs	Client Info		18963	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				NORMAL	NORMAL	SEVERE
WEAR	Iron	nnm	ASTM D5185m	>120	2	6	2
WLAN	Chromium	ppm	ASTM D5185m		0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver		ASTM D5185m		0	<1	0
	Aluminum	ppm ppm	ASTM D5185m		2	2	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		6	11	<1
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	710	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	05			
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		5 4	6 4	3
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	1.6	▲ 33.8
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\ 4	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	4.7	7.1	6.2
	Sulfation	Abs/.1mm	*ASTM D7415		17.4	20.5	15.2
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		1	3	1
LOID CONDITION	Boron	ppm	ASTM D5185m	0	3	14	4
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		56	12	28
	Manganese	ppm	ASTM D5185m		<1	1	0
	Magnesium	ppm	ASTM D5185m		962	82	452
	Calcium	ppm	ASTM D5185m		1021	2434	951
	Phosphorus	ppm	ASTM D5185m		1028	947	680
	Zinc	ppm	ASTM D5185m		1252	1177	829
	Sulfur	ppm	ASTM D5185m		3514	4210	2178
	Oxidation	Abs/.1mm	*ASTM D7414		13.5	11.6	10.1
	Base Number (BN)				9.0	4.9	7.9





Certificate L2367

Laboratory Sample No.

: GFL0125200 Lab Number : 06225633

Unique Number : 11103830 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024 **Tested**

: 03 Jul 2024 Diagnosed : 03 Jul 2024 - Don Baldridge

GFL Environmental - 865 - East Mount Hauling

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)

F: