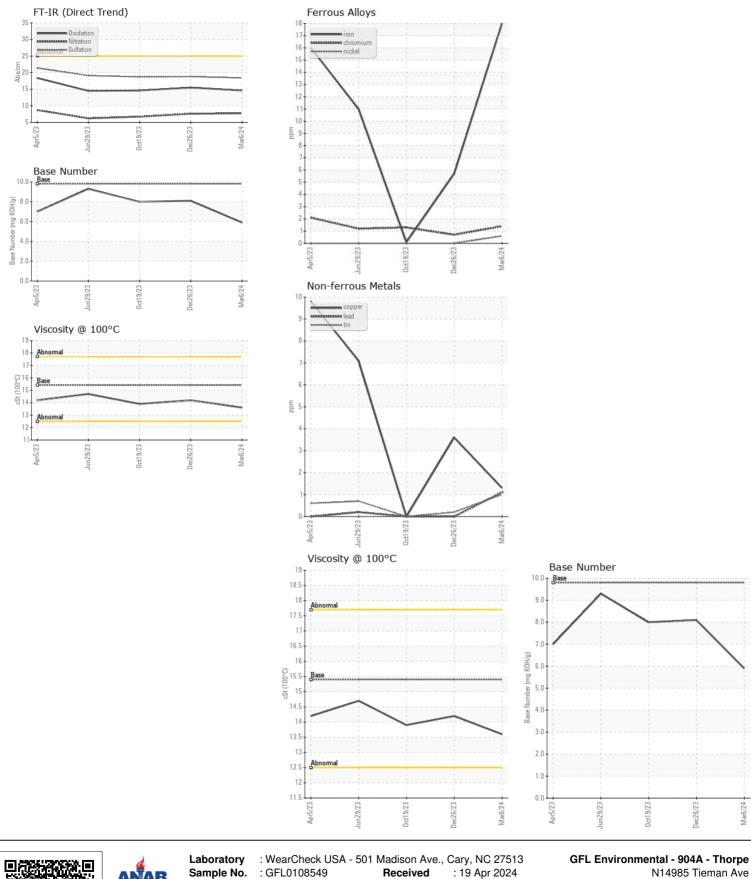
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

421040-455

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0108549	GFL0066153	GFL006614
	Sample Date		Client Info		06 Mar 2024	26 Dec 2023	19 Oct 202
	Machine Age	hrs	Client Info		8533	7958	7454
	Oil Age	hrs	Client Info		600	600	500
	Filter Age	hrs	Client Info		600	600	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	18	6	<1
	Chromium	ppm	ASTM D5185m	>5	1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	2	2
	Lead	ppm	ASTM D5185m		1	0	0
	Copper	ppm	ASTM D5185m		1	4	0
	Tin	ppm	ASTM D5185m		1	<1	0
	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	ppm	ASTM D5185m	>20	5	3	0
	Potassium	ppm	ASTM D5185m		5	4	0
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 U.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.6	6.7
	Sulfation	Abs/.1mm	*ASTM D7415		18.4	18.8	18.7
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		4	2	0
LOID CONDITION	Boron	ppm	ASTM D5185m	0	4	3	0
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	4
	Molybdenum	ppm	ASTM D5185m		62	63	58
	Manganese		ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		926	1020	898
	Calcium	ppm	ASTM D5185m		1123	1052	1039
	Phosphorus	ppm	ASTM D5185m		1044	1067	979
	Zinc	ppm	ASTM D5185m		1237	1283	1164
	Sulfur	ppm	ASTM D5185m		3202	2979	3215
	Oxidation	Abs/.1mm	*ASTM D7414		14.6	15.5	14.6
	Base Number (BN)		ASTM D2896		5.9	8.1	8.0
	Dasc Hullinel (DIV)	my Kony	7.0 TW D2030	0.0	5.5	0.1	0.0







Certificate L2367

Test Package : FLEET

: GFL0108549 Lab Number : 06153975

Unique Number: 10989398

Received **Tested** : 22 Apr 2024

Diagnosed : 22 Apr 2024 - Wes Davis N14985 Tieman Ave Thorp, WI US 54771

Contact: Andy Kane akane@gflenv.com T: (715)202-3420

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)