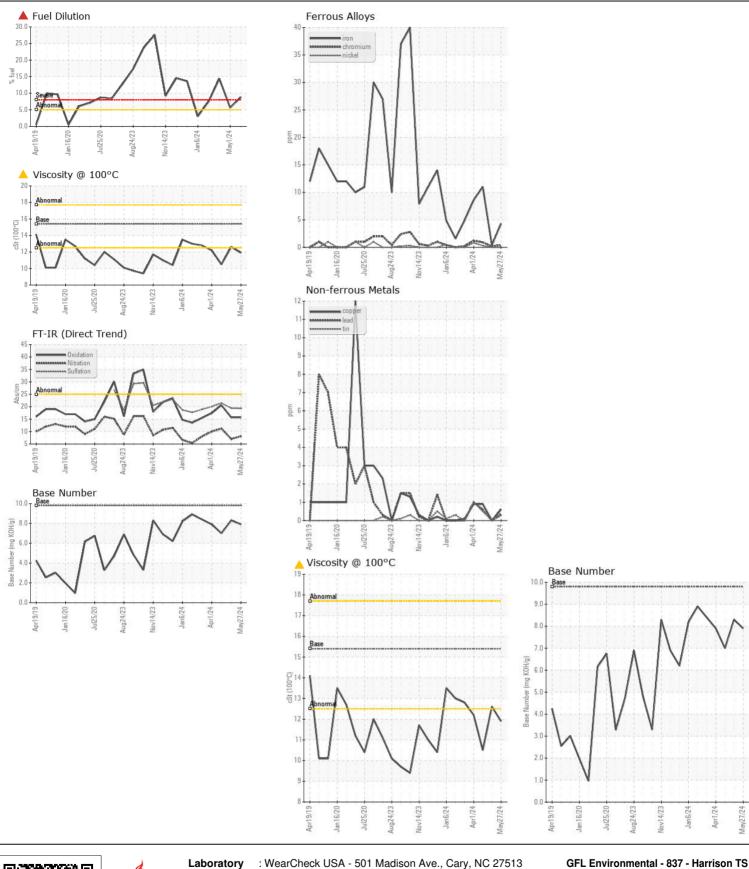
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

723024-361659

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UCIVI	Client Info	LIIIIIUAUII	GFL0122839	GFL0118781	GFL011875
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		27 May 2024	01 May 2024	15 Apr 2024
	Machine Age	hrs	Client Info		28027	27860	27771
	Oil Age	hrs	Client Info		27938	27771	27432
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Change		Changed
	Sample Status				SEVERE	ABNORMAL	SEVERE
WEAD			ACTM DE105	100		4	44
WEAR	Iron	ppm	ASTM D5185m		4	<1	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m	. 0	<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0 2
	Aluminum	ppm	ASTM D5185m		2	0	
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 <1	0	<1 <1
	Copper Tin	ppm	ASTM D5185m		<1 <1	0	<1
	Vanadium	ppm	ASTM D5185m	>15	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>			Visuai		·····	INOINL	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	2	6
There is a high agreement of five large and in the cit. Take a sufficient the	Potassium	ppm	ASTM D5185m	>20	2	<1	2
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>5	A 8.8	<u></u> 5.6	1 4.4
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.0	11.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.4	21.5
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	15
	Boron	ppm	ASTM D5185m	0	2	2	6
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	60	54	54	56
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	841	881	825
	Calcium	ppm	ASTM D5185m	1070	1015	1002	979
	Phosphorus	ppm	ASTM D5185m	1150	1052	989	982
	Zinc	ppm	ASTM D5185m	1270	1155	1168	1103
	Sulfur	ppm	ASTM D5185m	2060	3130	3327	2881
	Oxidation	Abs/.1mm	*ASTM D7414		15.7	15.7	20.6
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.3	7.0
	Visc @ 100°C			15.4		12.6	







Certificate L2367

Laboratory Sample No.

: GFL0122839 Lab Number : 06196346

Unique Number : 11058469

Received **Tested** Diagnosed

: 31 May 2024 : 04 Jun 2024

: 04 Jun 2024 - Wes Davis Test Package: FLEET (Additional Tests: PercentFuel)

22820 S State Route 291 Harrisonville, MO US 64701

Contact: SARA PATRICK spatrick@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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