WEAR CONTAMINATION FLUID CONDITION

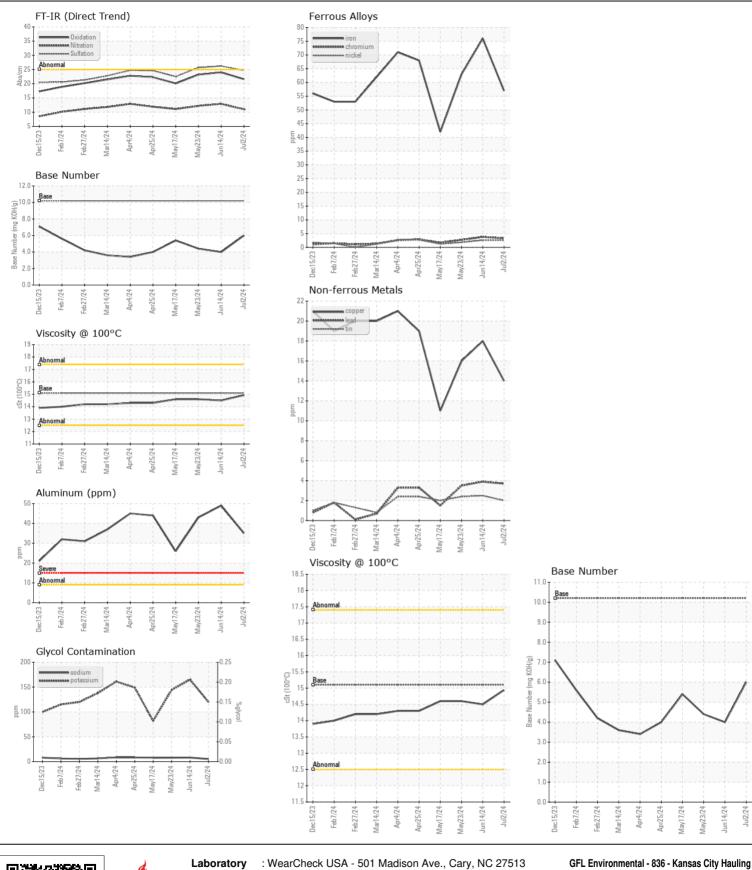
NORMAL NORMAL NORMAL

Machine Id

834093

## Natural Gas Engine

DECOMMENDATION.	_				( <u> </u>	V	
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		GFL0122861 02 Jul 2024	GFL0122823 14 Jun 2024	GFL0122800
	Machine Age	hrs	Client Info		1189	1083	23 May 2024 9180
	Oil Age	hrs	Client Info		1083	9180	9180
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		N/A	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Ŭ	Not Change
	Sample Status				NORMAL	NORMAL	NORMAL
W= 4 B							
WEAR	Iron	ppm	ASTM D5185m		57	76	63
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		3	4	3
	Nickel	ppm	ASTM D5185m	>2	3	3	2
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		35	49	43
	Lead	ppm	ASTM D5185m		4	4	4
	Copper	ppm	ASTM D5185m		14	18	16
	Tin	ppm	ASTM D5185m	>4	2	2	2
	Vanadium White Metal	ppm	*Visual	NONE	<1 NONE	0 NONE	0 NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
·		Scalai	visuai	INOINL	INONE	INOINL	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	18	26	23
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m	>20	120	165	144
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	11.0	12.9	12.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	26.2	25.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	8	8
	Boron	ppm	ASTM D5185m	50	26	10	13
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	5	1	3	3
	Molybdenum	ppm	ASTM D5185m	50	62	65	55
	Manganese	ppm	ASTM D5185m	0	11	15	13
	Magnesium	ppm	ASTM D5185m	560	735	903	746
	Calcium	ppm	ASTM D5185m	1510	1513	1543	1288
	Phosphorus	ppm	ASTM D5185m	780	735	845	772
	Zinc	ppm	ASTM D5185m		1006	1092	929
	Sulfur	ppm	ASTM D5185m	2040	2290	2805	2498
	Oxidation	Abs/.1mm	*ASTM D7414		21.6	24.0	23.2
	Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.0	4.0	4.4
	Visc @ 100°C	cSt	ASTM D445		14.94	14.5	14.6





Certificate L2367

Sample No.

: GFL0122861

Lab Number : 06230669

Received **Tested** Unique Number: 11114162

: 08 Jul 2024 Diagnosed

: 11 Jul 2024 : 12 Jul 2024 - Sean Felton

7801 East Truman Road

Kansas City, MO US 64126

Contact: Christopher Gilkey cgilkey@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)

Test Package : FLEET ( Additional Tests: Glycol, KV40 )

F: