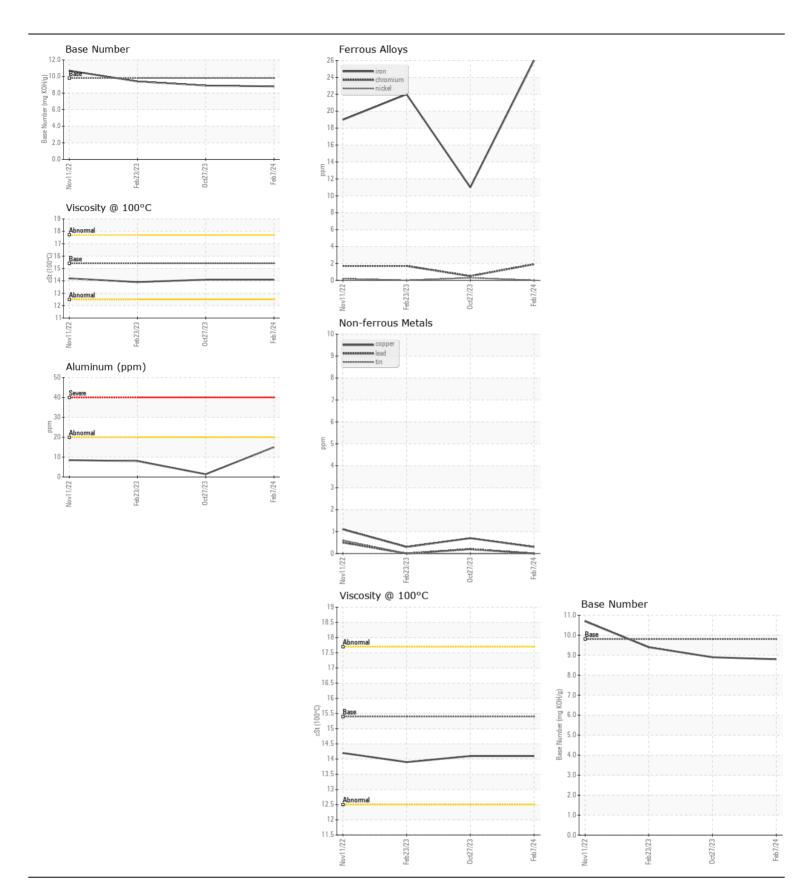
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id 411035

Component
Diocol Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0103984	GFL0093317	GFL005435
	Sample Date		Client Info		07 Feb 2024	27 Oct 2023	23 Feb 202
	Machine Age	hrs	Client Info		6479	5892	5071
	Oil Age	hrs	Client Info		6479	5892	5071
	Filter Age	hrs	Client Info		0	5892	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
MEAR	lvon		ACTM DE10Em	. 100	00	4.4	20
WEAR	Iron	ppm	ASTM D5185m		26	11	22
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		2	<1	2
		ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m	. 2	0	0	0
	Silver	ppm	ASTM D5185m		0 15	<1	0
	Aluminum Lead	ppm	ASTM D5185m ASTM D5185m		15 0	<1	0
		ppm	ASTM D5185m		0 <1	<1	<1
	Copper Tin	ppm	ASTM D5185m		0	0	0
		ppm	ASTM D5185m	>10	0	0	0
	Vanadium White Metal	ppm	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Tellow Metal	scalar	VISUAI	INOINE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	4	3
	Potassium	ppm	ASTM D5185m	>20	44	4	17
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. There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.1	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	5.1	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	17.4	19.4
	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		2	0	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		0	2	2
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	5	0
	Molybdenum	ppm	ASTM D5185m		60	56	59
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		960	836	942
	Calcium	ppm	ASTM D5185m		1110	980	1078
	Phosphorus	ppm	ASTM D5185m		1028	886	998
	Zinc	ppm	ASTM D5185m	-	1308	1106	1234
		10 10 100	ASTM D5185m	2060	3121	3075	3615
	Sulfur	ppm					
	Sulfur Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896	>25	14.7	13.3 8.9	14.4







Certificate L2367

Laboratory

Sample No.

Lab Number : 06085603 Unique Number : 10873048 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : GFL0103984 : 12 Feb 2024

: 12 Feb 2024 **Tested** : 12 Feb 2024 - Wes Davis Diagnosed

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX

US 77050 Contact: Saul Castillo saul.castillo@gflenv.com

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)

T:

F: