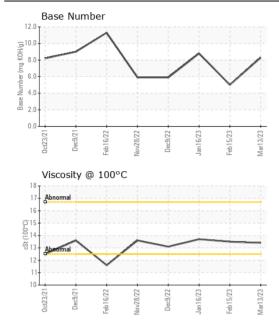
WEAR CONTAMINATION FLUID CONDITION

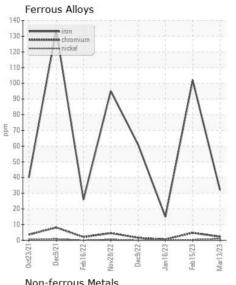
NORMAL NORMAL

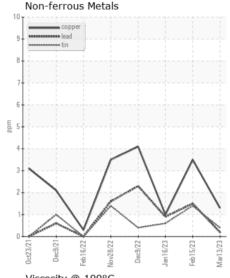
Machine Id

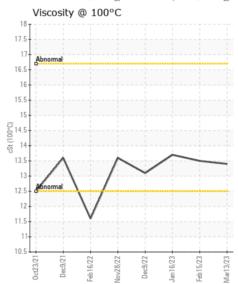
811041-101310

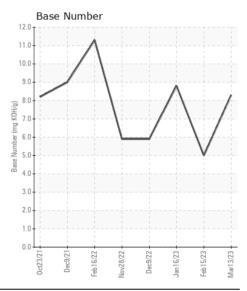
Component Diesel Engine							
{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		GFL0074730		GFL0046907
	Sample Date		Client Info		13 Mar 2023	15 Feb 2023	16 Jan 2023
	Machine Age	hrs	Client Info		4468	2994	4108
	Oil Age	hrs	Client Info		360	2994	302
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	32	<u> </u>	15
	Chromium	ppm	ASTM D5185m	>20	2	5	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	1	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	14	29	6
	Lead	ppm	ASTM D5185m	>40	<1	2	<1
	Copper	ppm	ASTM D5185m	>330	1	4	1
	Tin	ppm	ASTM D5185m	>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\25	4	<u>^</u> 25	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		12	83	11
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\ 3	0.7	1.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	12.6	6.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	27.2	18.6
	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		*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION	0 - 45		AOTA DEADE				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	8	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		3	15	3
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		55	150	57
	Manganese	ppm	ASTM D5185m		<1	2	<1
	Magnesium	ppm	ASTM D5185m		866	907	935
	Calcium	ppm	ASTM D5185m ASTM D5185m		984	1088	1014
	Phosphorus	ppm			926	878	1001
	Zinc	ppm	ASTM D5185m		1167	1148	1247
	Sulfur	ppm Abo/1mm	ASTM D5185m	. 25	3339	3005	3694
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	25.4	14.2
	Base Number (BN)	0 0			8.3	5.0	8.8
	Visc @ 100°C	cSt	ASTM D445		13.4	13.5	13.7















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0074730 : 05793922 : 10383606

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Mar 2023 : 17 Mar 2023 Diagnosed

Diagnostician : Wes Davis GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117 Contact: Brad Koenig

bkoenig@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: