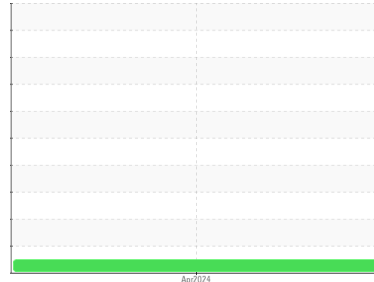




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

1200C

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0111030	---	---
Sample Date	Client Info		02 Apr 2024	---	---
Machine Age	hrs Client Info		18011	---	---
Oil Age	hrs Client Info		0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	18	---	---
Chromium	ppm ASTM D5185m	>20	<1	---	---
Nickel	ppm ASTM D5185m	>4	0	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m	>3	0	---	---
Aluminum	ppm ASTM D5185m	>20	2	---	---
Lead	ppm ASTM D5185m	>40	0	---	---
Copper	ppm ASTM D5185m	>330	<1	---	---
Tin	ppm ASTM D5185m	>15	0	---	---
Vanadium	ppm ASTM D5185m		<1	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	250	6	---	---
Barium	ppm ASTM D5185m	10	0	---	---
Molybdenum	ppm ASTM D5185m	100	69	---	---
Manganese	ppm ASTM D5185m		0	---	---
Magnesium	ppm ASTM D5185m	450	1058	---	---
Calcium	ppm ASTM D5185m	3000	1222	---	---
Phosphorus	ppm ASTM D5185m	1150	1117	---	---
Zinc	ppm ASTM D5185m	1350	1405	---	---
Sulfur	ppm ASTM D5185m	4250	3708	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	5	---	---
Sodium	ppm ASTM D5185m	>216	7	---	---
Potassium	ppm ASTM D5185m	>20	<1	---	---

INFRA-RED

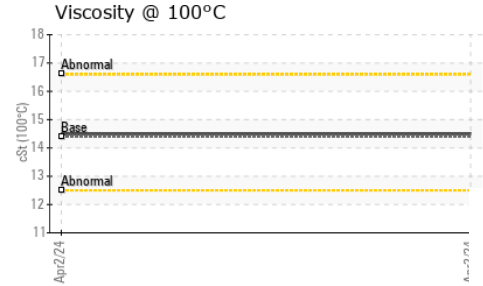
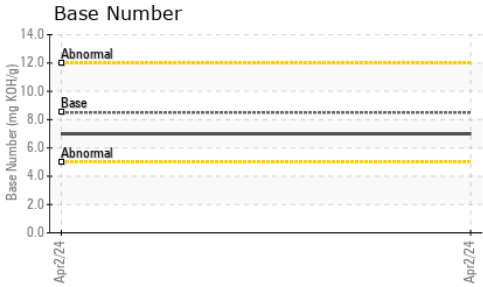
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.7	---	---
Nitration	Abs/cm *ASTM D7624	>20	10.9	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	21.7	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	18.5	---	---
Base Number (BN)	mg KOH/g ASTM D2896	8.5	7.0	---	---



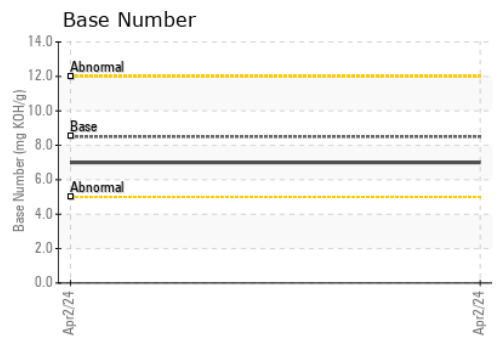
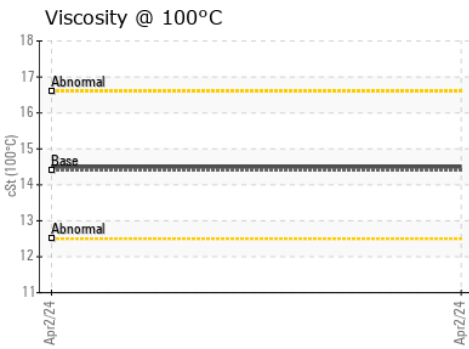
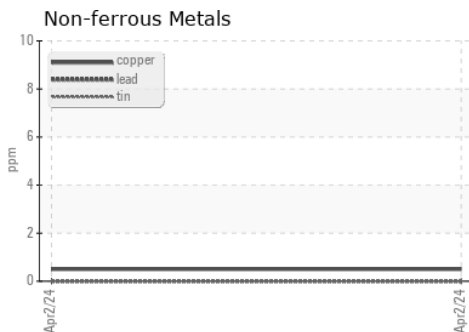
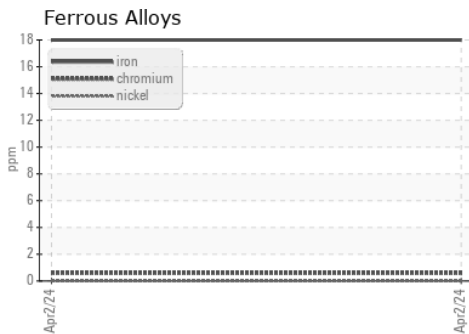
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	14.5	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0111030
Lab Number : **06137194**
Unique Number : 10956659
Test Package : FLEET

Received : 03 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 04 Apr 2024 - Wes Davis

GFL Environmental - 006 - Wilmington
 3618 US Highway 421 N
 Wilmington, NC
 US 28401
 Contact: TECHNICIAN ACCOUNT
 catherine.anastasio@wearcheck.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: (910)762-6880