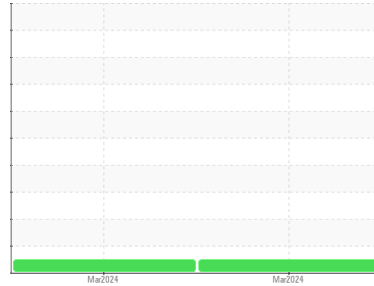




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
834012
 Component
Natural Gas Engine
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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.

Wear

Metal levels are typical for a new component breaking in.

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		GFL0111865	GFL0111840	---
Sample Date	Client Info		27 Mar 2024	04 Mar 2024	---
Machine Age	hrs	Client Info	537	364	---
Oil Age	hrs	Client Info	537	364	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	57	50	---
Chromium	ppm	ASTM D5185m >4	<1	0	---
Nickel	ppm	ASTM D5185m >2	2	<1	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m >3	<1	0	---
Aluminum	ppm	ASTM D5185m >9	3	1	---
Lead	ppm	ASTM D5185m >30	2	<1	---
Copper	ppm	ASTM D5185m >35	21	13	---
Tin	ppm	ASTM D5185m >4	2	<1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	12	16	---
Barium	ppm	ASTM D5185m	2	5	---
Molybdenum	ppm	ASTM D5185m	57	48	---
Manganese	ppm	ASTM D5185m	19	16	---
Magnesium	ppm	ASTM D5185m	708	765	---
Calcium	ppm	ASTM D5185m	1225	1125	---
Phosphorus	ppm	ASTM D5185m	611	665	---
Zinc	ppm	ASTM D5185m	860	852	---
Sulfur	ppm	ASTM D5185m	2086	1961	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	39	32	---
Sodium	ppm	ASTM D5185m	5	3	---
Potassium	ppm	ASTM D5185m >20	15	<1	---

INFRA-RED

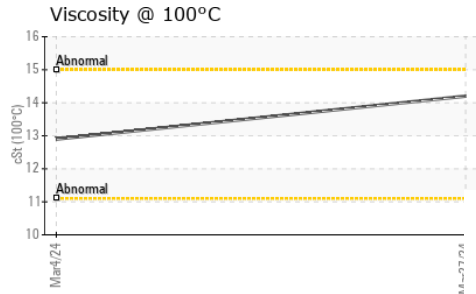
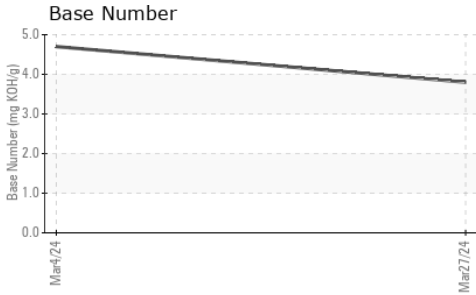
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	---
Nitration	Abs/cm	*ASTM D7624 >20	12.0	11.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.3	20.8	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.2	19.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	3.8	4.7	---



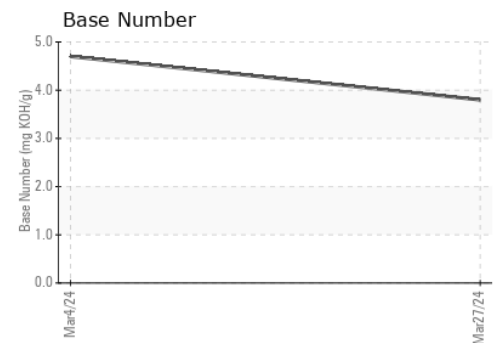
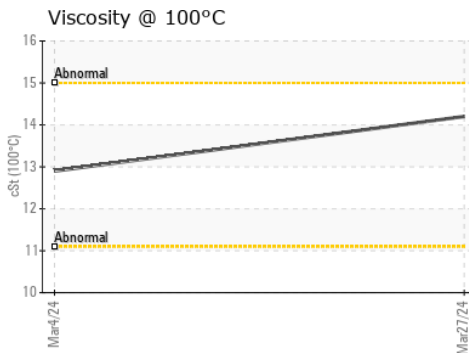
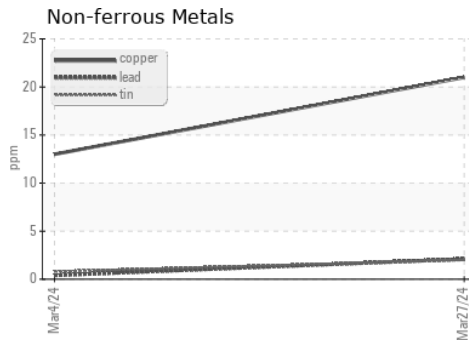
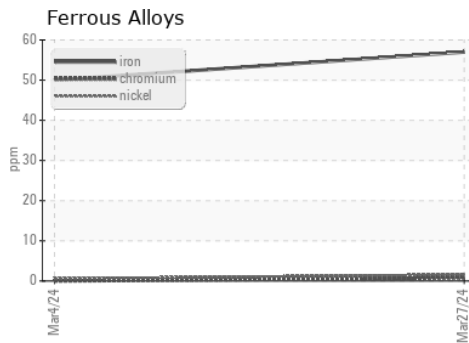
OIL ANALYSIS REPORT



PARAMETER	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	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.2	12.9	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0111865
 Lab Number : 06131784
 Unique Number : 10951249
 Test Package : FLEET

Received : 28 Mar 2024
 Tested : 29 Mar 2024
 Diagnosed : 29 Mar 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling
 10954 Houser Drive
 Fredericksburg, VA
 US 22408
 Contact: WILLIAM MILO
 wmilo@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: