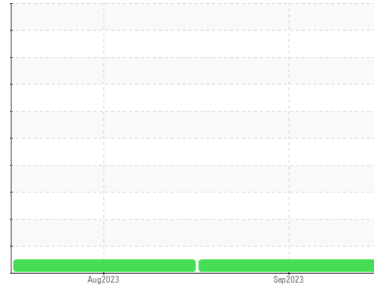




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
AUTOCAR 832005

Component
Natural Gas Engine
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Filter number 3401544 first oil change)

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	GFL0087518	GFL0087541	---
Sample Date	Client Info	08 Sep 2023	10 Aug 2023	---
Machine Age	hrs Client Info	1178	973	---
Oil Age	hrs Client Info	1178	373	---
Oil Changed	Client Info	Changed	Not Changd	---
Sample Status		NORMAL	NORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	32	32	---
Chromium ppm	ASTM D5185m >4	2	1	---
Nickel ppm	ASTM D5185m >2	<1	1	---
Titanium ppm	ASTM D5185m	<1	<1	---
Silver ppm	ASTM D5185m >3	<1	<1	---
Aluminum ppm	ASTM D5185m >9	4	5	---
Lead ppm	ASTM D5185m >30	1	2	---
Copper ppm	ASTM D5185m >35	10	12	---
Tin ppm	ASTM D5185m >4	2	2	---
Vanadium ppm	ASTM D5185m	0	0	---
Cadmium ppm	ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	9	8	---
Barium ppm	ASTM D5185m	0	<1	---
Molybdenum ppm	ASTM D5185m	71	69	---
Manganese ppm	ASTM D5185m	8	8	---
Magnesium ppm	ASTM D5185m	783	763	---
Calcium ppm	ASTM D5185m	1653	1516	---
Phosphorus ppm	ASTM D5185m	785	744	---
Zinc ppm	ASTM D5185m	1088	1018	---
Sulfur ppm	ASTM D5185m	3049	2961	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >+100	15	18	---
Sodium ppm	ASTM D5185m	5	6	---
Potassium ppm	ASTM D5185m >20	3	2	---

INFRA-RED

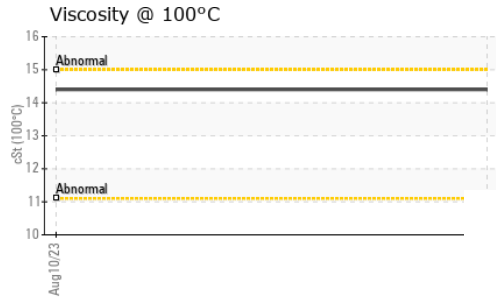
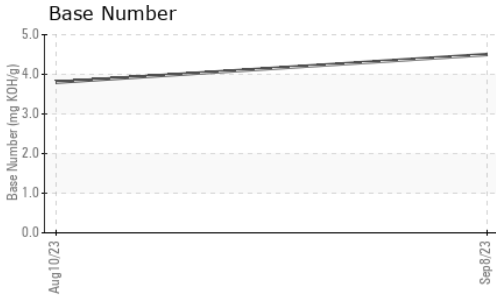
method	limit/base	current	history1	history2
Soot %	*ASTM D7844	0.1	0.1	---
Nitration Abs/cm	*ASTM D7624 >20	11.7	11.6	---
Sulfation Abs/.1mm	*ASTM D7415 >30	23.8	23.6	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm	*ASTM D7414 >25	20.0	20.5	---
Base Number (BN) mg KOH/g	ASTM D2896	4.5	3.8	---



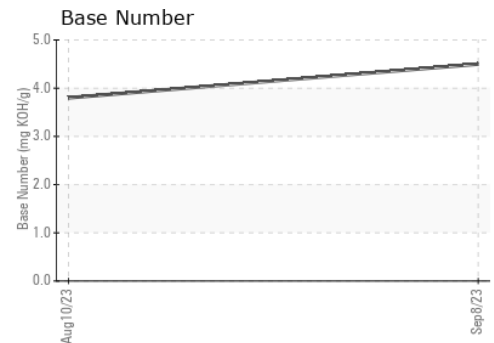
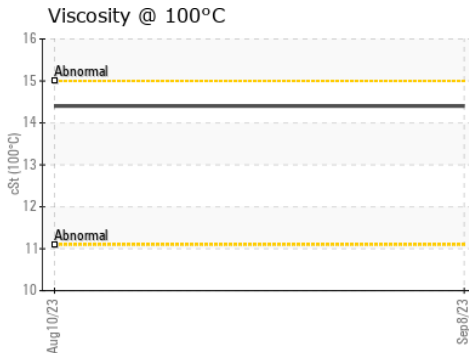
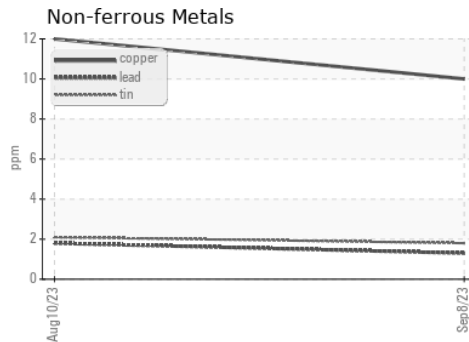
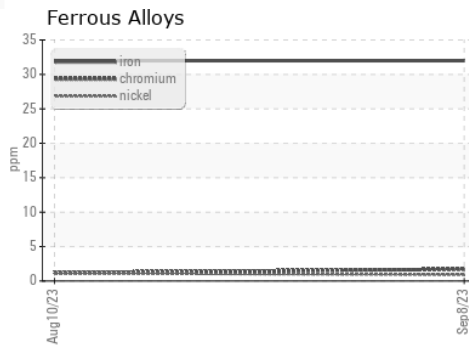
OIL ANALYSIS REPORT



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

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0087518 **Received** : 11 Sep 2023
Lab Number : **05946880** **Diagnosed** : 13 Sep 2023
Unique Number : 10642839 **Diagnostician** : Don Baldrige
Test Package : FLEET

GFL Environmental - 331 - Columbus
 180 Ada Moore Rd
 Columbus, NC
 US 28722
 Contact: Jason Ashley
 jashley@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: