

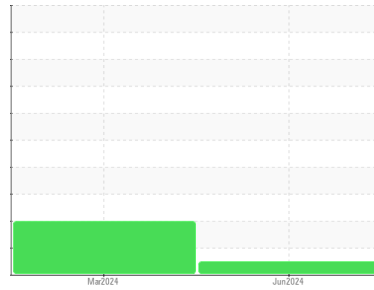


OIL ANALYSIS REPORT



Area
(C0857008)
Machine Id
934027
Component
Natural Gas Engine
Fluid
DIESEL ENGINE OIL SAE 15W30 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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		GFL0122660	GFL0103430	---
Sample Date	Client Info		25 Jun 2024	19 Mar 2024	---
Machine Age	hrs	Client Info	1125	1125	---
Oil Age	hrs	Client Info	689	1125	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			NORMAL	ABNORMAL	---

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	29	▲ 95	---
Chromium	ppm	ASTM D5185m >4	2	3	---
Nickel	ppm	ASTM D5185m >2	<1	4	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m >3	0	<1	---
Aluminum	ppm	ASTM D5185m >9	15	24	---
Lead	ppm	ASTM D5185m >30	2	4	---
Copper	ppm	ASTM D5185m >35	8	23	---
Tin	ppm	ASTM D5185m >4	1	3	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	6	3	---
Barium	ppm	ASTM D5185m 10	<1	4	---
Molybdenum	ppm	ASTM D5185m 100	73	79	---
Manganese	ppm	ASTM D5185m	2	15	---
Magnesium	ppm	ASTM D5185m 450	1003	939	---
Calcium	ppm	ASTM D5185m 3000	1369	1225	---
Phosphorus	ppm	ASTM D5185m 1150	1026	926	---
Zinc	ppm	ASTM D5185m 1350	1419	1126	---
Sulfur	ppm	ASTM D5185m 4250	3259	2376	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	10	30	---
Sodium	ppm	ASTM D5185m >25	53	8	---
Potassium	ppm	ASTM D5185m >20	35	66	---

INFRA-RED

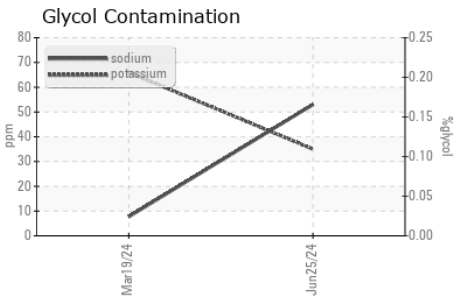
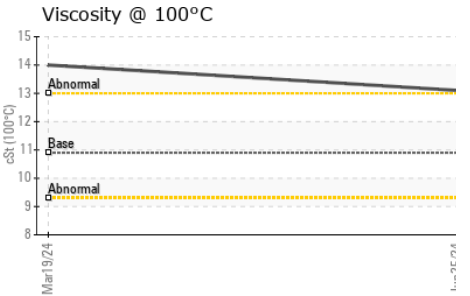
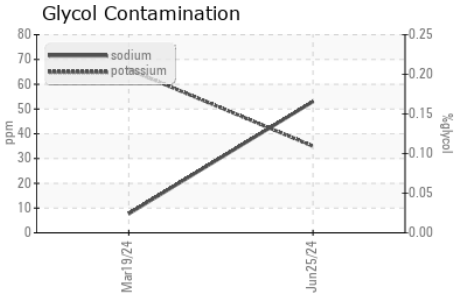
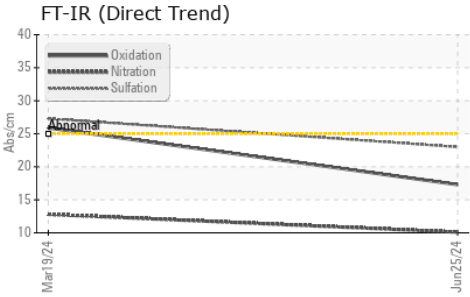
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	---
Nitration	Abs/cm	*ASTM D7624 >20	10.1	12.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.0	27.3	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.3	25.9	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	3.9	▲ 2.5	---



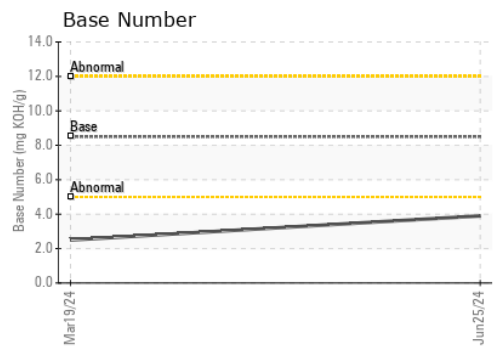
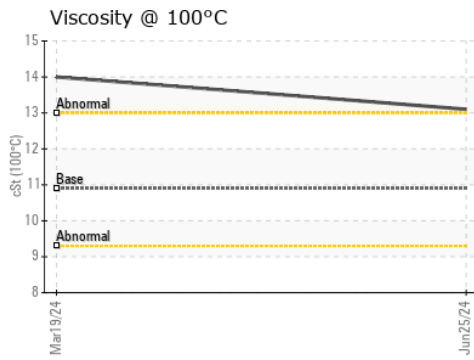
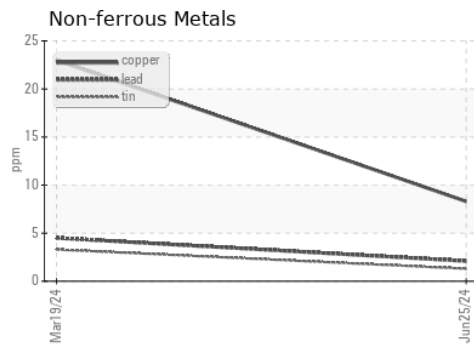
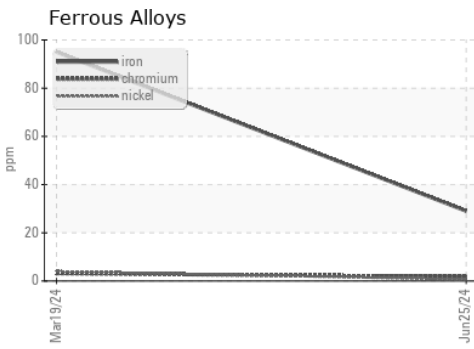
OIL ANALYSIS REPORT



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	10.9	13.1	14.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0122660 **Received** : 28 Jun 2024
Lab Number : 06223352 **Tested** : 01 Jul 2024
Unique Number : 11101549 **Diagnosed** : 01 Jul 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

GFL Environmental - 095 - Atlanta West
 2699 Cochran Industrial Blvd
 Douglasville, GA
 US 30127-1332

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)

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