



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	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	---
Filter Age	hrs	Client Info		689	1125	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

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	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

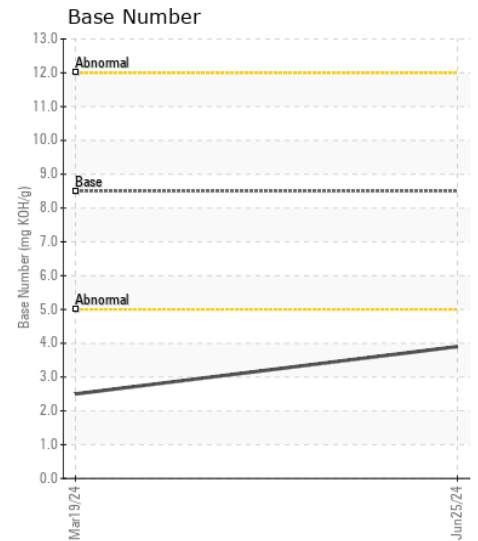
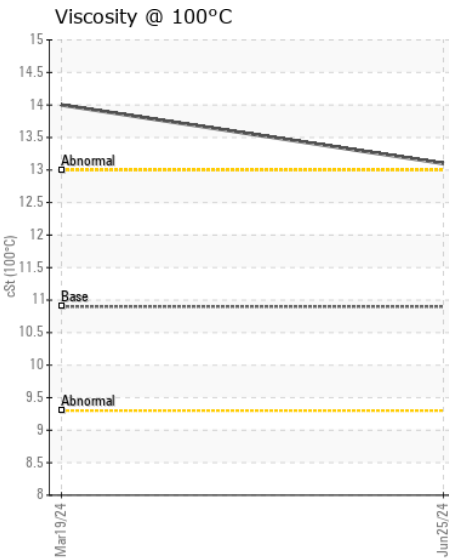
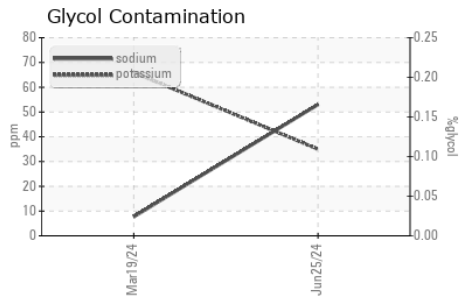
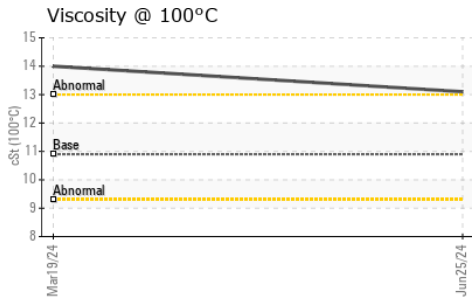
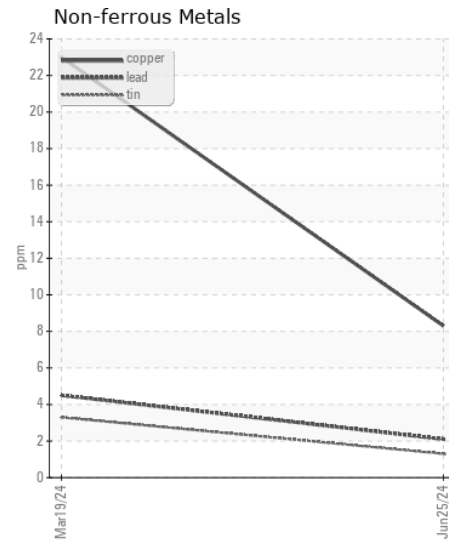
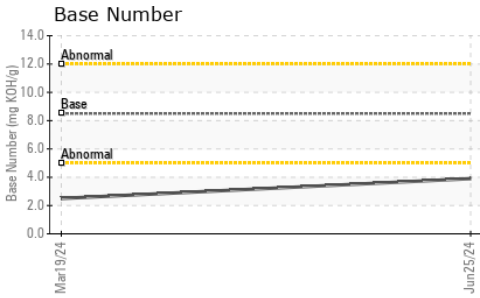
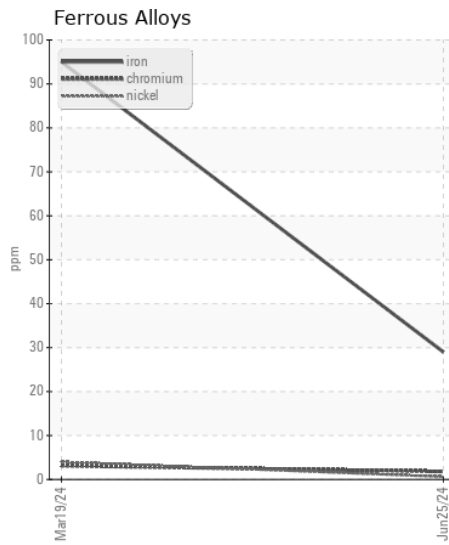
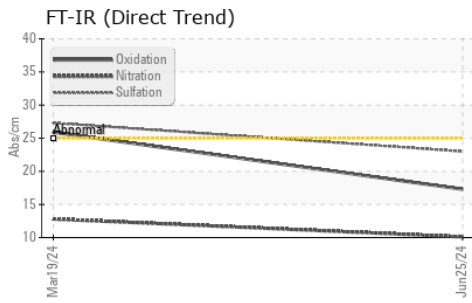
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	10	30	---
Potassium	ppm	ASTM D5185m	>20	35	66	---
Water		WC Method	>0.1	NEG	NEG	---
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	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185m	>25	53	8	---
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	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	25.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.9	▲ 2.5	---
Visc @ 100°C	cSt	ASTM D445	10.9	13.1	14.0	---



Certificate L2367

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
 Contact: Darrell Welch
 darrell.welch@gflenv.com
 T: (800)207-6618
 F:

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)