



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(GHB926)
Machine Id
934028
Component
Natural Gas Engine
Fluid
RDL-3647 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0103387	GFL0114507	---
Sample Date		Client Info		08 Jul 2024	31 Mar 2024	---
Machine Age	hrs	Client Info		1955	1142	---
Oil Age	hrs	Client Info		813	0	---
Filter Age	hrs	Client Info		813	0	---
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	26	▲ 64	---
Chromium	ppm	ASTM D5185m	>4	1	2	---
Nickel	ppm	ASTM D5185m	>2	1	3	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>9	7	16	---
Lead	ppm	ASTM D5185m	>30	1	2	---
Copper	ppm	ASTM D5185m	>35	8	19	---
Tin	ppm	ASTM D5185m	>4	1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

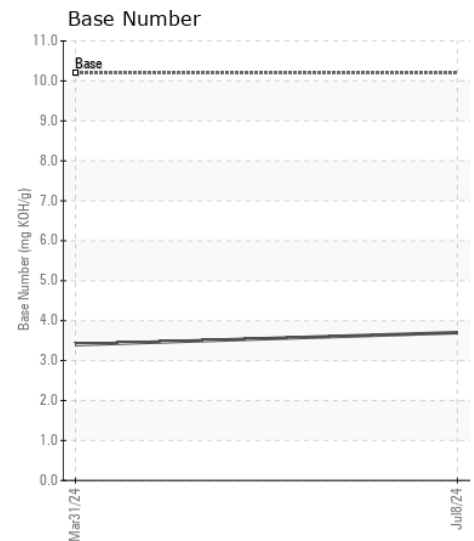
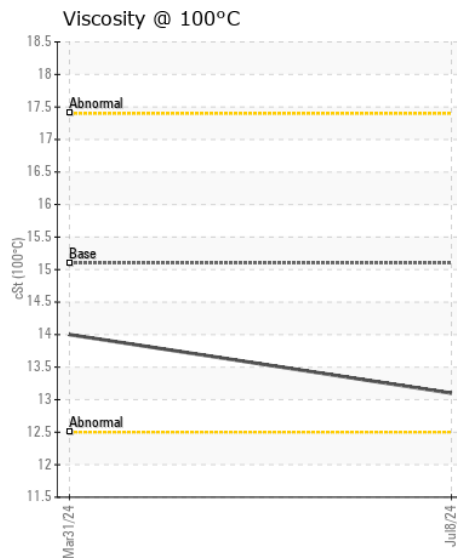
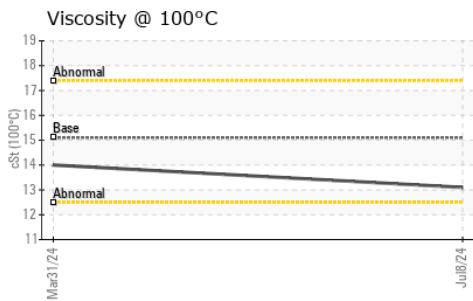
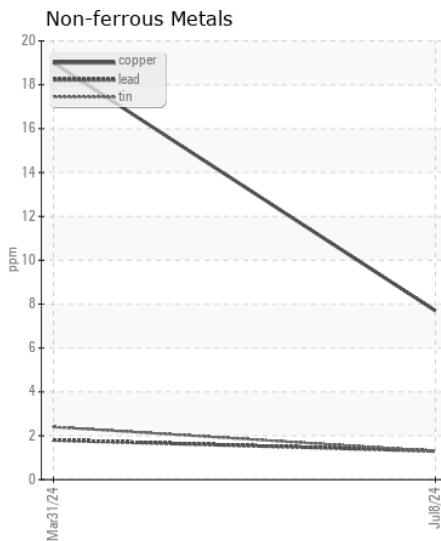
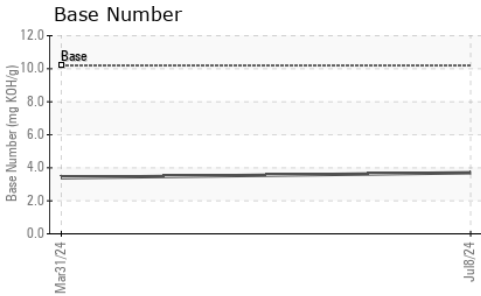
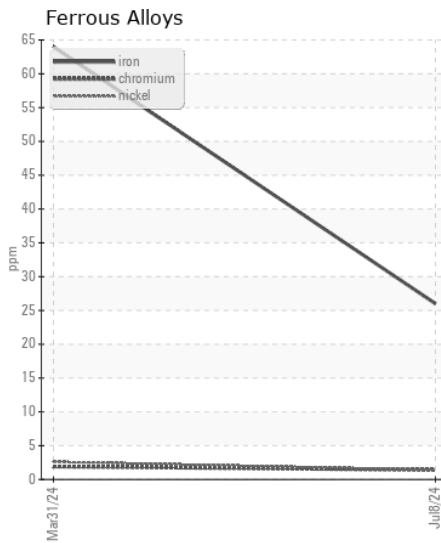
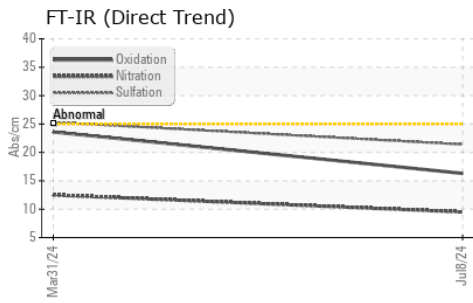
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	8	25	---
Potassium	ppm	ASTM D5185m	>20	14	45	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	*ASTM D7844		0	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	12.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	25.3	---
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		7	7	---
Boron	ppm	ASTM D5185m	50	1	4	---
Barium	ppm	ASTM D5185m	5	0	5	---
Molybdenum	ppm	ASTM D5185m	50	73	63	---
Manganese	ppm	ASTM D5185m	0	3	15	---
Magnesium	ppm	ASTM D5185m	560	930	898	---
Calcium	ppm	ASTM D5185m	1510	1190	1201	---
Phosphorus	ppm	ASTM D5185m	780	934	854	---
Zinc	ppm	ASTM D5185m	870	1262	1093	---
Sulfur	ppm	ASTM D5185m	2040	2770	3055	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	23.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.7	3.4	---
Visc @ 100°C	cSt	ASTM D445	15.1	13.1	14.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0103387
Lab Number : 06232124
Unique Number : 11115617
Test Package : FLEET

Received : 10 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 11 Jul 2024 - Wes Davis

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)