



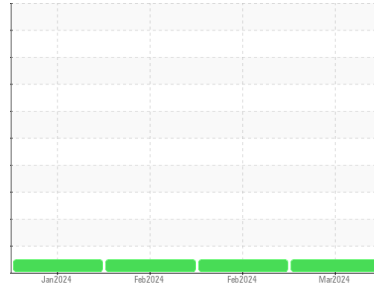
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(48031UA)
Machine Id
834027
Component
Natural Gas Engine
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal for time on oil.

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			GFL0111820	GFL0111826	GFL0108247
Sample Date	Client Info			08 Mar 2024	27 Feb 2024	07 Feb 2024
Machine Age	hrs	Client Info		1234	1148	1033
Oil Age	hrs	Client Info		1234	1148	1033
Oil Changed	Client Info			Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	60	71	66
Chromium	ppm	ASTM D5185m	>4	1	2	2
Nickel	ppm	ASTM D5185m	>2	2	3	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>9	7	7	6
Lead	ppm	ASTM D5185m	>30	4	5	4
Copper	ppm	ASTM D5185m	>35	13	15	17
Tin	ppm	ASTM D5185m	>4	3	3	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	4	4
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		64	65	65
Manganese	ppm	ASTM D5185m		12	15	15
Magnesium	ppm	ASTM D5185m		867	1057	904
Calcium	ppm	ASTM D5185m		1537	1729	1460
Phosphorus	ppm	ASTM D5185m		864	859	824
Zinc	ppm	ASTM D5185m		1084	1241	1069
Sulfur	ppm	ASTM D5185m		2899	2717	2473

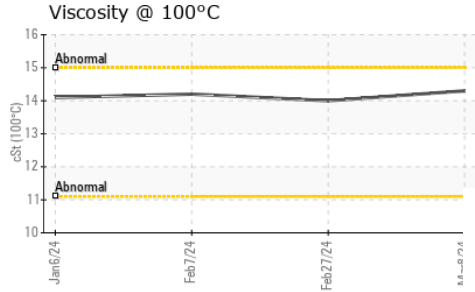
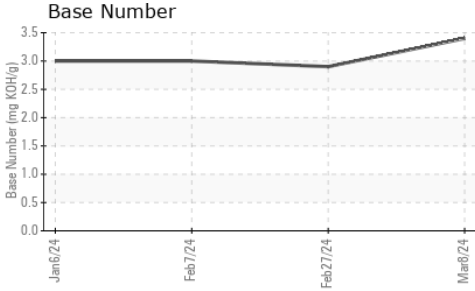
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	22	27	29
Sodium	ppm	ASTM D5185m		8	28	2
Potassium	ppm	ASTM D5185m	>20	20	20	22

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	14.0	14.5	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3	28.4	27.0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.0	27.1	25.3
Base Number (BN)	mg KOH/g	ASTM D2896		3.4	2.9	3.0



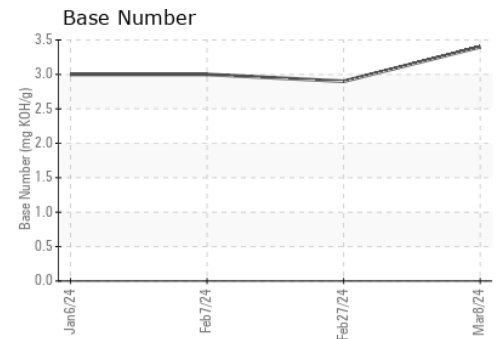
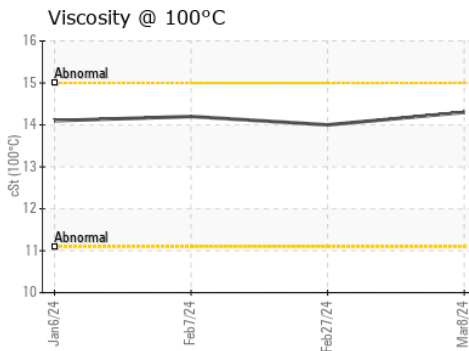
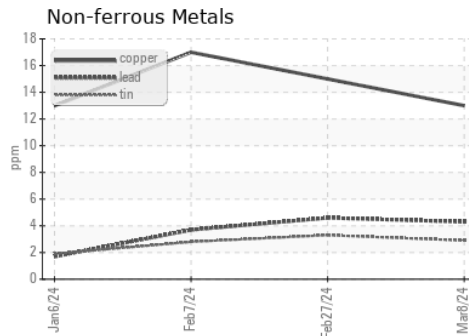
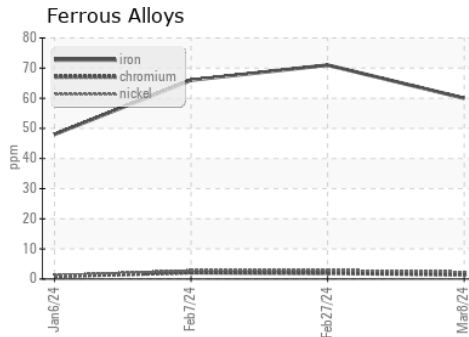
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.3	14.0	14.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0111820 **Received** : 12 Mar 2024
Lab Number : 06116499 **Tested** : 14 Mar 2024
Unique Number : 10925332 **Diagnosed** : 14 Mar 2024 - Don Baldrige
Test Package : FLEET

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

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F: