

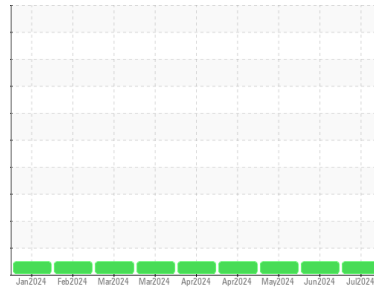


OIL ANALYSIS REPORT



Machine Id
834025
 Component
Natural Gas Engine
 Fluid
NOT GIVEN (--- 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			GFL0122001	GFL0116548	GFL0116590
Sample Date	Client Info			04 Jul 2024	12 Jun 2024	21 May 2024
Machine Age	hrs	Client Info		1545	1383	1223
Oil Age	hrs	Client Info		1385	160	1223
Oil Changed	Client Info			Changed	Not Changd	Changed
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	12	10	45
Chromium	ppm	ASTM D5185m	>4	1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	2
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	1
Aluminum	ppm	ASTM D5185m	>9	3	2	4
Lead	ppm	ASTM D5185m	>30	1	0	2
Copper	ppm	ASTM D5185m	>35	4	2	16
Tin	ppm	ASTM D5185m	>4	1	0	3
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	25	6
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		54	54	64
Manganese	ppm	ASTM D5185m		2	2	12
Magnesium	ppm	ASTM D5185m		629	599	834
Calcium	ppm	ASTM D5185m		1669	1624	1559
Phosphorus	ppm	ASTM D5185m		806	791	845
Zinc	ppm	ASTM D5185m		1045	1067	1095
Sulfur	ppm	ASTM D5185m		2572	2930	2786

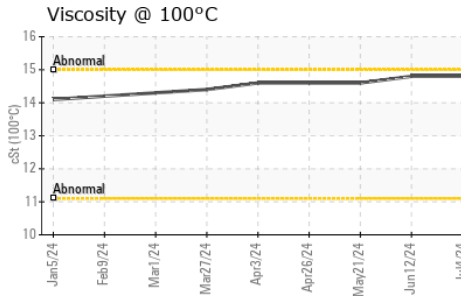
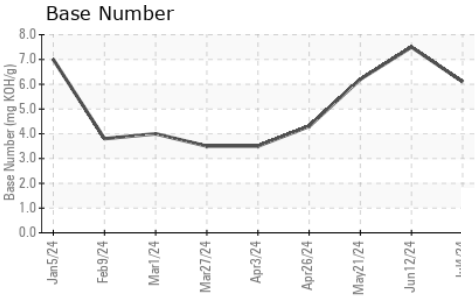
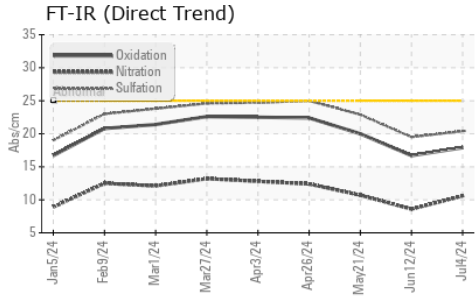
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	5	24
Sodium	ppm	ASTM D5185m		7	4	5
Potassium	ppm	ASTM D5185m	>20	3	2	7

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.6	8.6	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.5	22.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	16.7	20.0
Base Number (BN)	mg KOH/g	ASTM D2896		6.1	7.5	6.2



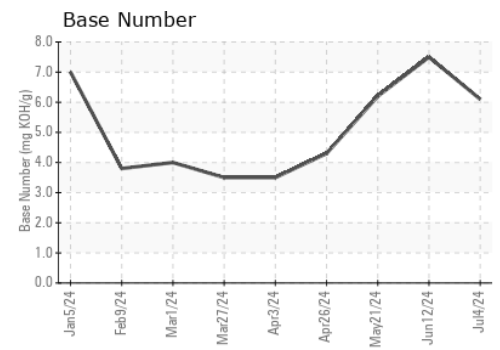
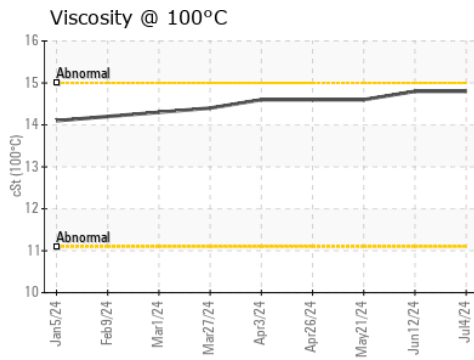
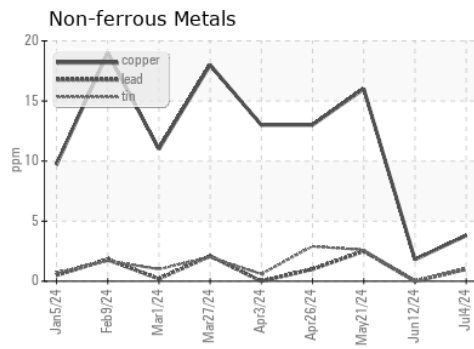
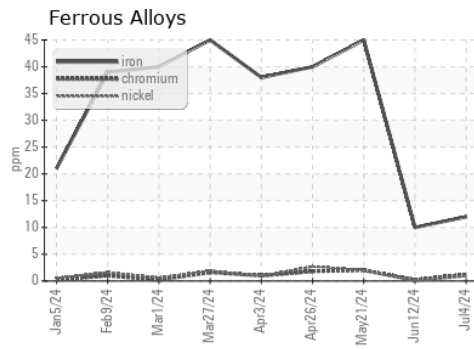
OIL ANALYSIS REPORT



PARAMETER	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	14.8	14.8	14.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0122001
Lab Number : 06229918
Unique Number : 11113411
Test Package : FLEET

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