



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(48026UA)
Machine Id
834032
Component
Natural Gas Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0116572	GFL0111870	GFL0111835
Sample Date		Client Info		16 Apr 2024	27 Mar 2024	29 Feb 2024
Machine Age	hrs	Client Info		982	856	672
Oil Age	hrs	Client Info		982	856	672
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>50	43	39	33
Chromium	ppm	ASTM D5185m	>4	2	<1	0
Nickel	ppm	ASTM D5185m	>2	2	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>9	3	3	2
Lead	ppm	ASTM D5185m	>30	2	2	0
Copper	ppm	ASTM D5185m	>35	16	15	11
Tin	ppm	ASTM D5185m	>4	3	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

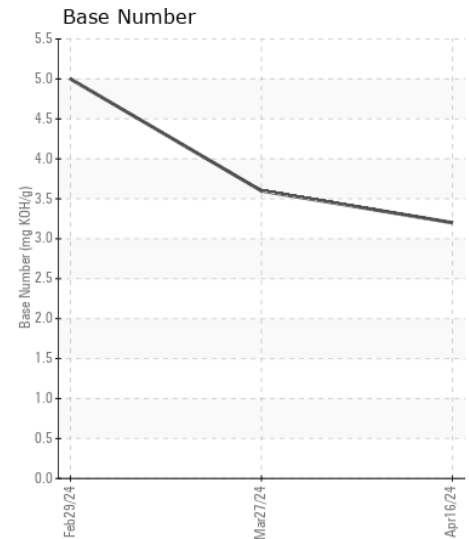
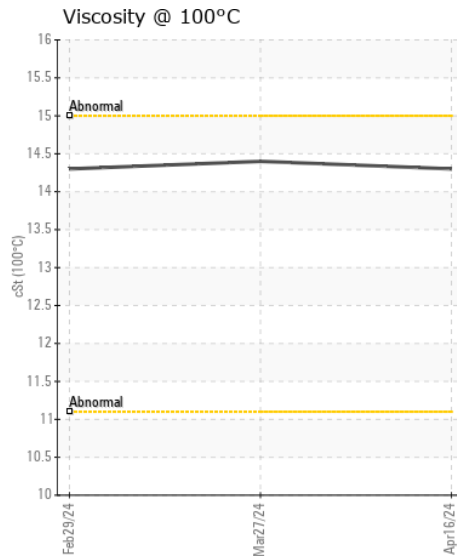
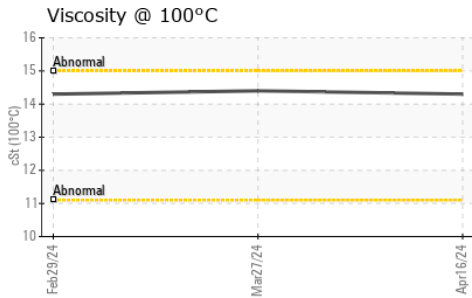
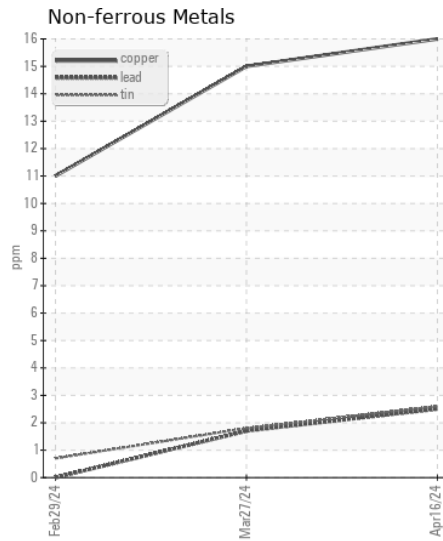
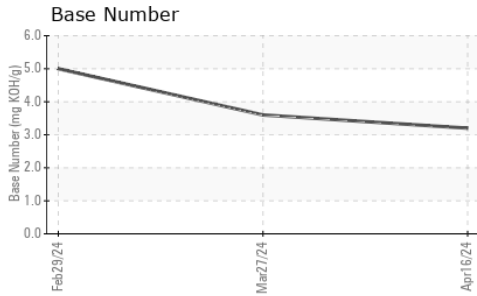
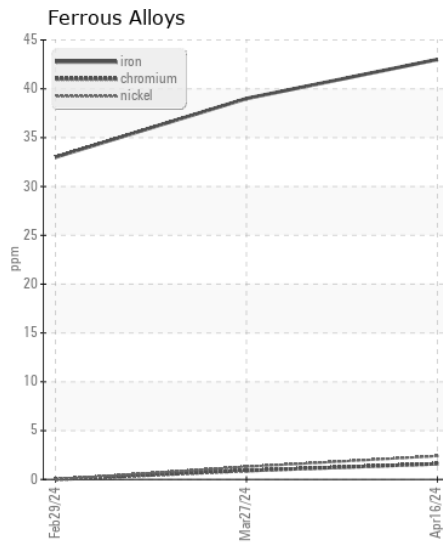
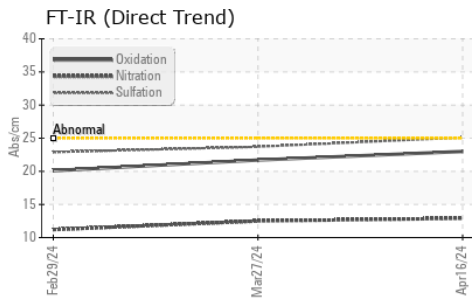
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	28	28	25
Potassium	ppm	ASTM D5185m	>20	4	4	1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.9	12.5	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	23.7	22.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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		4	4	4
Boron	ppm	ASTM D5185m		5	7	16
Barium	ppm	ASTM D5185m		2	0	1
Molybdenum	ppm	ASTM D5185m		56	56	49
Manganese	ppm	ASTM D5185m		10	9	8
Magnesium	ppm	ASTM D5185m		723	743	739
Calcium	ppm	ASTM D5185m		1295	1323	1207
Phosphorus	ppm	ASTM D5185m		713	700	696
Zinc	ppm	ASTM D5185m		890	926	841
Sulfur	ppm	ASTM D5185m		2458	2406	2077
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	21.7	20.1
Base Number (BN)	mg KOH/g	ASTM D2896		3.2	3.6	5.0
Visc @ 100°C	cSt	ASTM D445		14.3	14.4	14.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0116572
Lab Number : 06152846
Unique Number : 10982924
Test Package : FLEET

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Wes Davis

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: