



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(48023UA)
Machine Id
934036
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.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

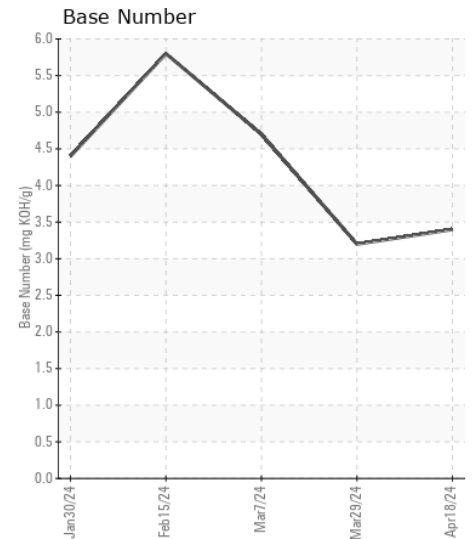
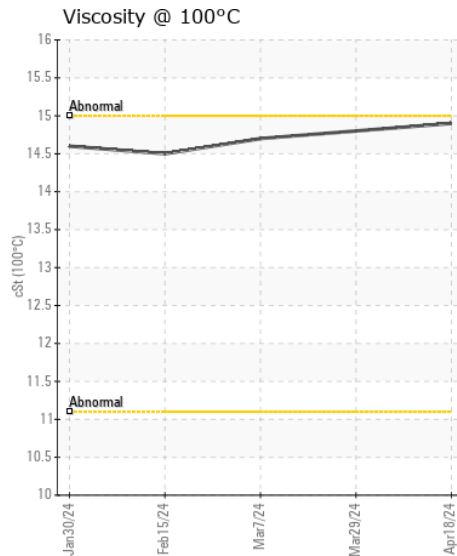
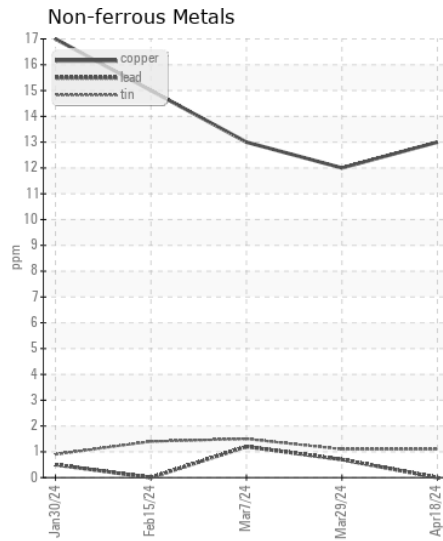
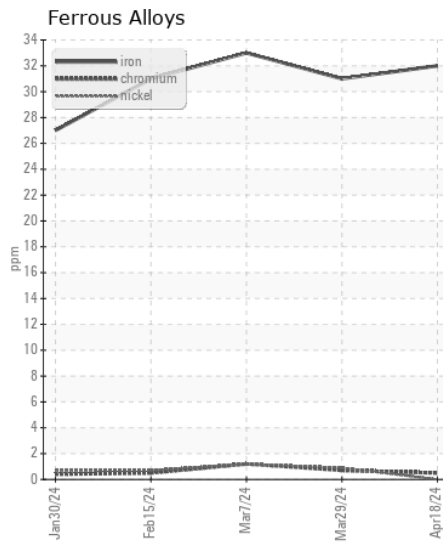
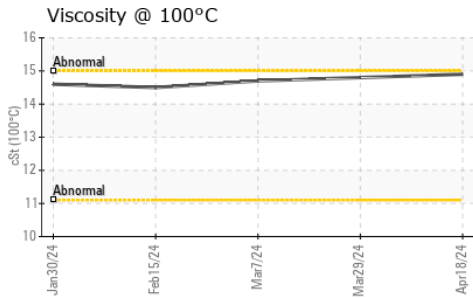
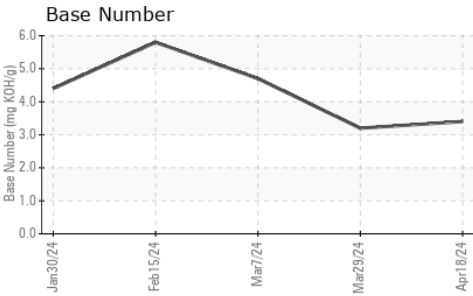
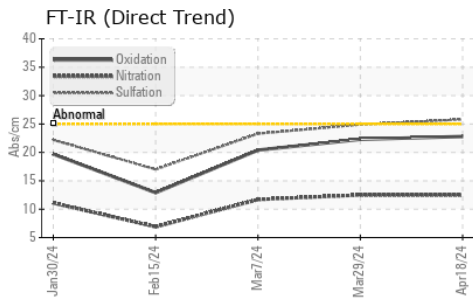
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0116623	GFL0111873	GFL0111859
Sample Date		Client Info		18 Apr 2024	29 Mar 2024	07 Mar 2024
Machine Age	hrs	Client Info		1061	906	745
Oil Age	hrs	Client Info		1061	906	745
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>50	32	31	33
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	1
Titanium	ppm	ASTM D5185m	>5	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	11	9	9
Lead	ppm	ASTM D5185m	>40	0	<1	1
Copper	ppm	ASTM D5185m	>150	13	12	13
Tin	ppm	ASTM D5185m	>4	1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>25	24	25	26
Potassium	ppm	ASTM D5185m	>20	23	23	24
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.5	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	24.9	23.3
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

Sodium	ppm	ASTM D5185m		3	5	5
Boron	ppm	ASTM D5185m		6	4	13
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		56	56	55
Manganese	ppm	ASTM D5185m		11	11	12
Magnesium	ppm	ASTM D5185m		720	717	713
Calcium	ppm	ASTM D5185m		1453	1443	1371
Phosphorus	ppm	ASTM D5185m		728	711	756
Zinc	ppm	ASTM D5185m		961	955	972
Sulfur	ppm	ASTM D5185m		2414	2645	2536
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	22.3	20.4
Base Number (BN)	mg KOH/g	ASTM D2896		3.4	3.2	4.7
Visc @ 100°C	cSt	ASTM D445		14.9	14.8	14.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0116623
Lab Number : 06158942
Unique Number : 10994365
Test Package : FLEET

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Wes Davis

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)

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F: