



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
834025
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.

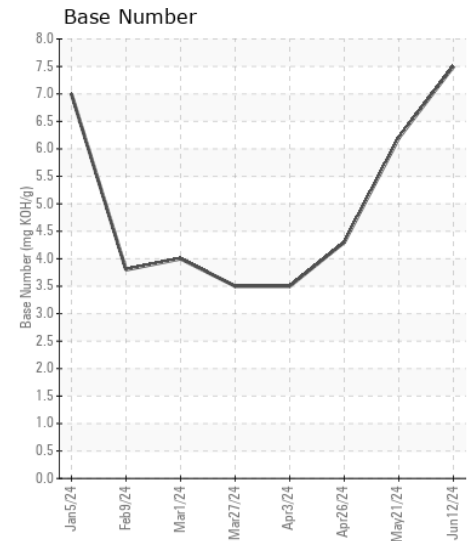
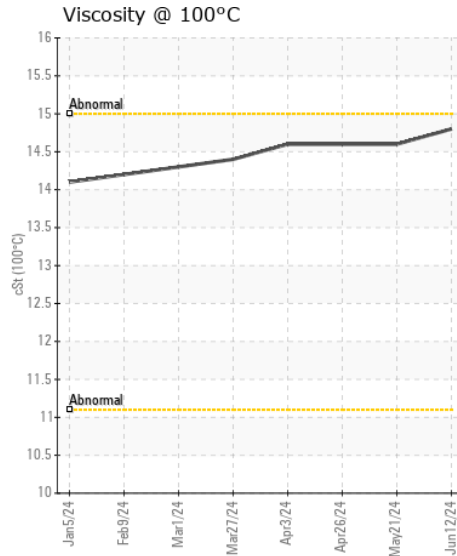
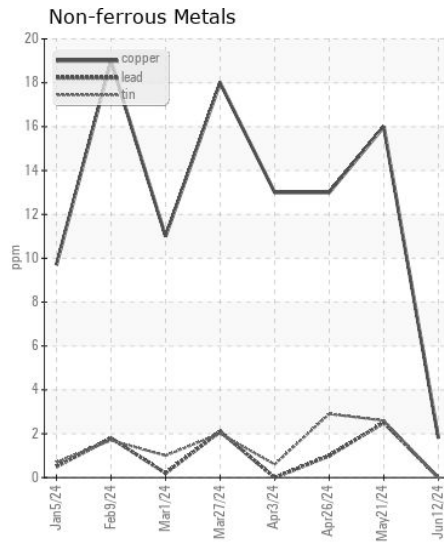
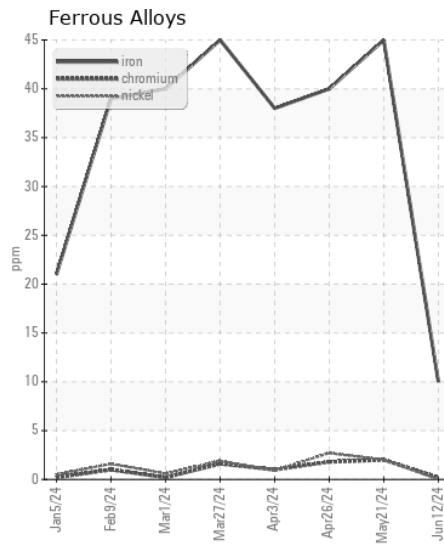
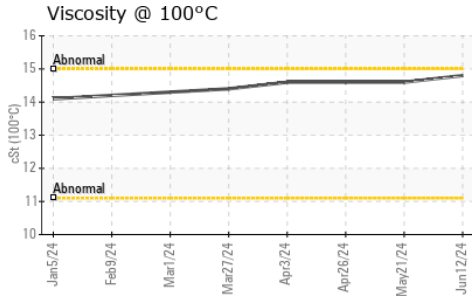
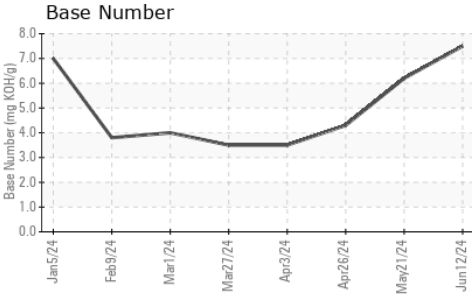
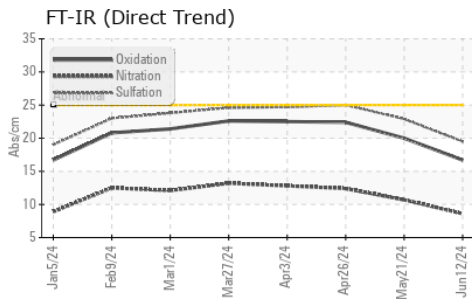
CONTAMINATION

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		GFL0116548	GFL0116590	GFL0116613
Sample Date		Client Info		12 Jun 2024	21 May 2024	26 Apr 2024
Machine Age	hrs	Client Info		1383	1223	1037
Oil Age	hrs	Client Info		160	1223	1037
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	10	45	40
Chromium	ppm	ASTM D5185m	>4	<1	2	2
Nickel	ppm	ASTM D5185m	>2	0	2	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	1	<1
Aluminum	ppm	ASTM D5185m	>9	2	4	4
Lead	ppm	ASTM D5185m	>30	0	2	1
Copper	ppm	ASTM D5185m	>35	2	16	13
Tin	ppm	ASTM D5185m	>4	0	3	3
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	5	24	22
Potassium	ppm	ASTM D5185m	>20	2	7	5
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.4	0
Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.7	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	22.9	25.0
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		4	5	5
Boron	ppm	ASTM D5185m		25	6	9
Barium	ppm	ASTM D5185m		0	2	3
Molybdenum	ppm	ASTM D5185m		54	64	60
Manganese	ppm	ASTM D5185m		2	12	12
Magnesium	ppm	ASTM D5185m		599	834	816
Calcium	ppm	ASTM D5185m		1624	1559	1685
Phosphorus	ppm	ASTM D5185m		791	845	870
Zinc	ppm	ASTM D5185m		1067	1095	1114
Sulfur	ppm	ASTM D5185m		2930	2786	3087
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	20.0	22.4
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	6.2	4.3
Visc @ 100°C	cSt	ASTM D445		14.8	14.6	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0116548
Lab Number : 06211022
Unique Number : 11083886
Test Package : FLEET
Received : 14 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 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)