



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
834101
 Component
Natural Gas Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

WEAR

All component wear rates are normal.

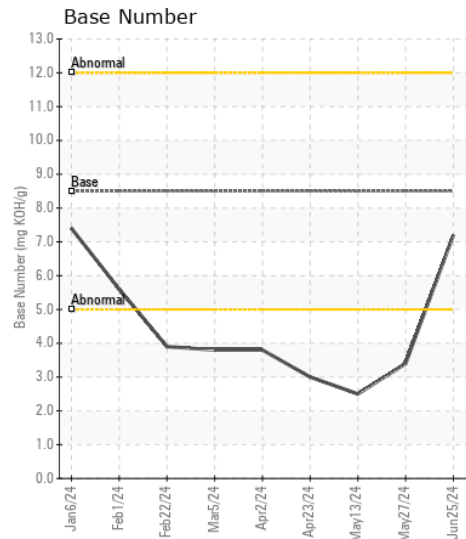
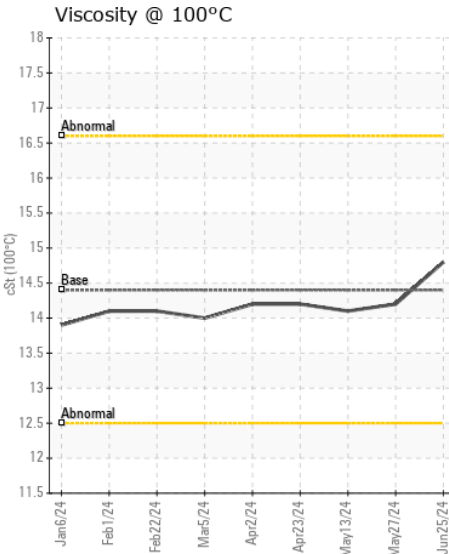
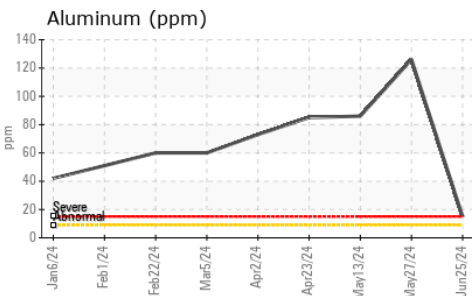
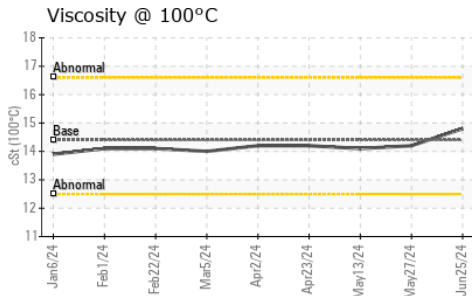
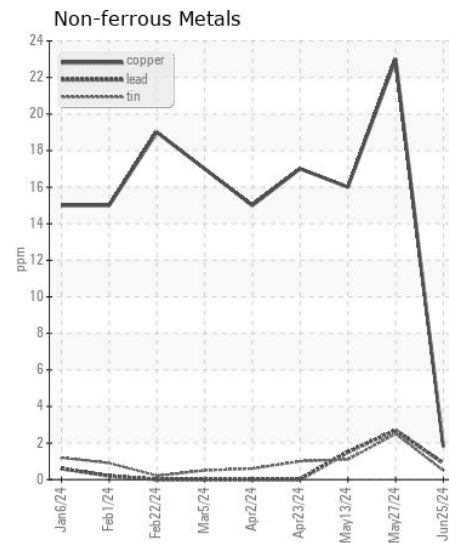
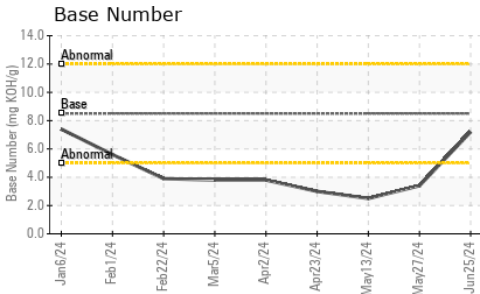
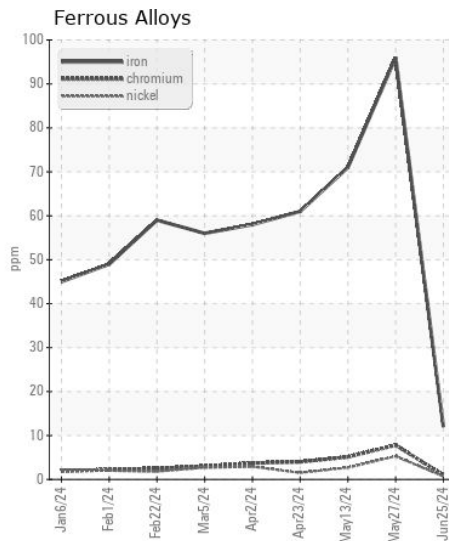
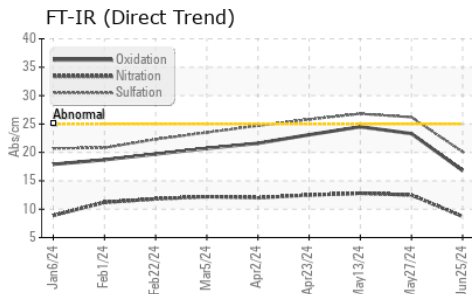
CONTAMINATION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		GFL0122016	GFL0122055	GFL0116598
Sample Date		Client Info		25 Jun 2024	27 May 2024	13 May 2024
Machine Age	hrs	Client Info		1386	1184	943
Oil Age	hrs	Client Info		202	957	716
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	12	96	71
Chromium	ppm	ASTM D5185m	>4	1	8	5
Nickel	ppm	ASTM D5185m	>2	<1	5	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	15	126	86
Lead	ppm	ASTM D5185m	>30	<1	3	2
Copper	ppm	ASTM D5185m	>35	2	23	16
Tin	ppm	ASTM D5185m	>4	<1	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
Silicon	ppm	ASTM D5185m	>+100	6	34	25
Potassium	ppm	ASTM D5185m	>20	32	322	210
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.7	12.5	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	26.2	26.8
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	>216	9	12	7
Boron	ppm	ASTM D5185m	250	21	12	3
Barium	ppm	ASTM D5185m	10	0	3	2
Molybdenum	ppm	ASTM D5185m	100	52	100	70
Manganese	ppm	ASTM D5185m		2	20	16
Magnesium	ppm	ASTM D5185m	450	624	1191	878
Calcium	ppm	ASTM D5185m	3000	1529	1899	1490
Phosphorus	ppm	ASTM D5185m	1150	867	1238	812
Zinc	ppm	ASTM D5185m	1350	1065	1514	1038
Sulfur	ppm	ASTM D5185m	4250	2848	4026	2898
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	23.3	24.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.2	3.4	2.5
Visc @ 100°C	cSt	ASTM D445	14.4	14.8	14.2	14.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0122016
Lab Number : 06222179
Unique Number : 11100376
Test Package : FLEET
Received : 27 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 28 Jun 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling
 10954 Houser Drive
 Fredericksburg, VA
 US 22408
 Contact: WILLIAM MILO
 wmilo@gflenv.com
 T:
 F:

Certificate L2367
 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)