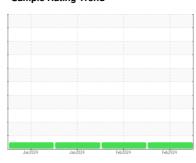


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **834090**

Component

Natural Gas Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

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.

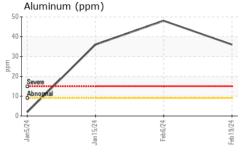
						Y
		Jan202	4 Jan 2024	Feb2024 F	b2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108304	GFL0108269	GFL0098174
Sample Date		Client Info		19 Feb 2024	06 Feb 2024	15 Jan 2024
Machine Age	hrs	Client Info		599	503	353
Oil Age	hrs	Client Info		599	503	353
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	57	81	61
Chromium	ppm	ASTM D5185m	>4	2	3	2
Nickel	ppm	ASTM D5185m	>2	2	4	2
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	36	48	36
Lead	ppm	ASTM D5185m	>30	1	2	1
Copper	ppm	ASTM D5185m	>35	14	22	17
Tin	ppm	ASTM D5185m	>4	1	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		15	17	22
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		60	68	55
Manganese	ppm	ASTM D5185m		12	17	13
Magnesium	ppm	ASTM D5185m		758	850	758
Calcium	ppm	ASTM D5185m		1304	1319	1129
Phosphorus	ppm	ASTM D5185m		713	763	735
Zinc	ppm	ASTM D5185m		978	1007	883
Sulfur	ppm	ASTM D5185m		2388	2559	2321
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	27	40	33
Sodium	ppm	ASTM D5185m		6	3	6
Potassium	ppm	ASTM D5185m	>20	115	160	119
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.5	12.0	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	23.0	21.0
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	20.3	19.2
Page Number (PNI)	ma 1/011/a	ACTM DOOGS		4.0	0.7	4.0

Base Number (BN) mg KOH/g ASTM D2896

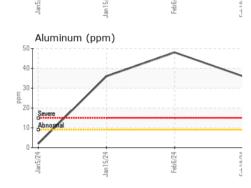
4.3



OIL ANALYSIS REPORT



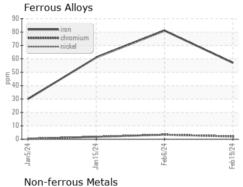
Jan5/24	Jan15/24 -	Feb 6/24 -	
an5//	15/2	7/9 q	

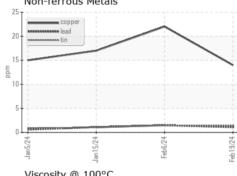


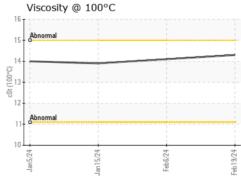
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

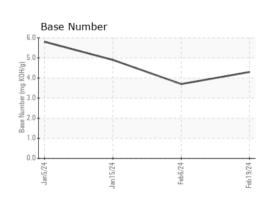
FLUID PROPERTIES		method			history2
Visc @ 100°C	cSt	ASTM D445	14.3	14.1	13.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06095443 Unique Number : 10888296 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108304 Received : 21 Feb 2024 **Tested** : 22 Feb 2024

Diagnosed : 22 Feb 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)

T:

F: