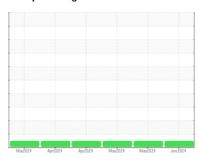


# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id
834009
Component
Natural Gas Engine
Fluid
{not provided} (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. 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

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.

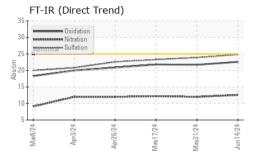
		Mar2024	Apr2024 Apr2024	May2024 May2024	Jun2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122080	GFL0116589	GFL0122043
Sample Date		Client Info		14 Jun 2024	21 May 2024	17 May 2024
Machine Age	hrs	Client Info		817	651	617
Oil Age	hrs	Client Info		166	651	617
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	45	50	41
Chromium	ppm	ASTM D5185m	>4	1	2	<1
Nickel	ppm	ASTM D5185m	>2	2	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	1	<1
Aluminum	ppm	ASTM D5185m	>9	8	8	6
Lead	ppm	ASTM D5185m	>30	2	2	1
Copper	ppm	ASTM D5185m	>35	16	20	16
Tin	ppm	ASTM D5185m	>4	2	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	8	6
Barium	ppm	ASTM D5185m		4	3	4
Molybdenum	ppm	ASTM D5185m		59	62	55
Manganese	ppm	ASTM D5185m		13	14	13
Magnesium	ppm	ASTM D5185m		897	838	793
Calcium	ppm	ASTM D5185m		1406	1440	1372
Phosphorus	ppm	ASTM D5185m		868	768	711
Zinc	ppm	ASTM D5185m		1081	1037	940
Sulfur	ppm	ASTM D5185m		3041	2615	2650
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	27	32	29
Sodium	ppm	ASTM D5185m		6	4	4
Potassium	ppm	ASTM D5185m	>20	16	17	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.4	0
Nitration	Abs/cm	*ASTM D7624	>20	12.6	12.0	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	23.9	23.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	21.7	21.8
Page Number (PNI)		ACTM DOOGS		2.0	4.0	0.4

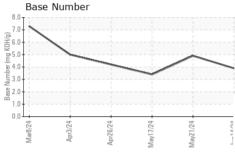
3.9

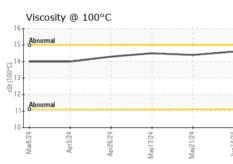
Base Number (BN) mg KOH/g ASTM D2896



# **OIL ANALYSIS REPORT**



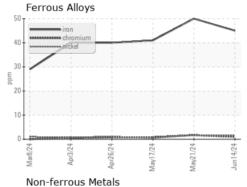


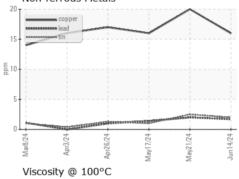


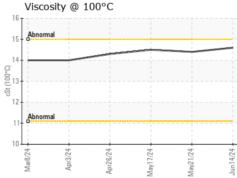
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

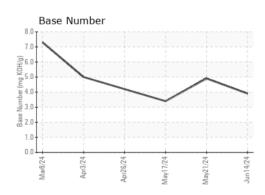
FLUID PROP	EHILO	method		HISTORY	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.6	14.4	14.5

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

Lab Number : 06213255 Unique Number : 11086119

: GFL0122080

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested** : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com T:

\* - 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)

F: