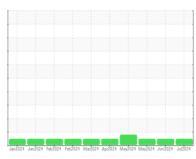


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
834090
Component
Natural Gas Engine
Fluid
{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

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.

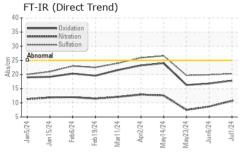
Juni024 Juni024 Febi024 Febi024 Mexi024 Apri024 Mexi024 Mexi024 Juni024 Juni024 Juni024 Juni024									
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0121998	GFL0122036	GFL0122060			
Sample Date		Client Info		01 Jul 2024	06 Jun 2024	23 May 2024			
Machine Age	hrs	Client Info		1567	1401	1300			
Oil Age	hrs	Client Info		1397	1332	69			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATIO	NC	method	limit/base	current	history1	history2			
Water		WC Method	>0.1	NEG	NEG	NEG			
WEAR METALS	;	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>50	16	16	12			
Chromium	ppm	ASTM D5185m	>4	1	1	<1			
Nickel	ppm	ASTM D5185m	>2	<1	<1	0			
Titanium	ppm	ASTM D5185m		0	<1	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>9	28	23	18			
Lead	ppm	ASTM D5185m	>30	0	<1	<1			
Copper	ppm	ASTM D5185m	>35	1	3	2			
Tin	ppm	ASTM D5185m	>4	<1	<1	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		14	25	35			
Barium	ppm	ASTM D5185m		0	0	0			
Molybdenum	ppm	ASTM D5185m		51	54	48			
Manganese	ppm	ASTM D5185m		2	2	2			
Magnesium	ppm	ASTM D5185m		624	589	588			
	ppm	ASTM D5185m		1621	1522	1499			
Phosphorus	ppm	ASTM D5185m		786	686	772			
Zinc	ppm	ASTM D5185m		990	908	909			
	ppm	ASTM D5185m		2879	2333	2787			
CONTAMINANT	S	method	limit/base	current	history1	history2			
	ppm		>+100	7	7	6			
	ppm	ASTM D5185m		6	5	5			
Potassium	ppm	ASTM D5185m	>20	70	55	42			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844		0.1	0	0			
Nitration	Abs/cm	*ASTM D7624	>20	10.7	8.7	7.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.9	19.7			
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	16.8	16.3			

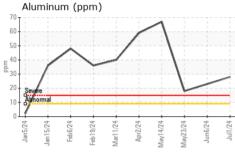
5.9

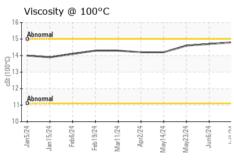
Base Number (BN) mg KOH/g ASTM D2896

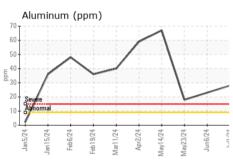


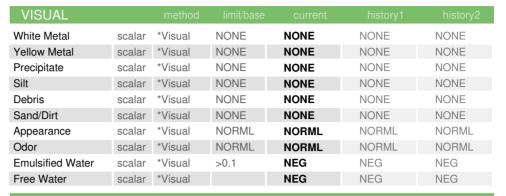
# **OIL ANALYSIS REPORT**





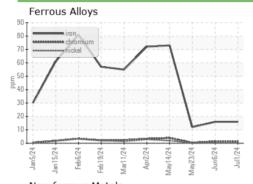


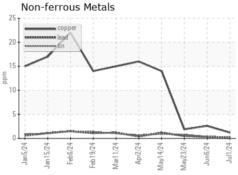


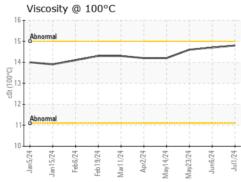


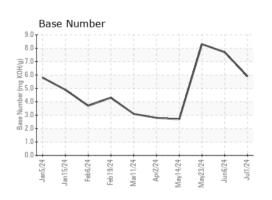
FLUID PROP	ERHES	method			history2
Visc @ 100°C	cSt	ASTM D445	14.8	14.7	14.6

## **GRAPHS**













Certificate 12367

Sample No.

Laboratory : GFL0121998 Lab Number : 06228268

Unique Number : 11111761 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jul 2024

**Tested** : 05 Jul 2024 Diagnosed : 05 Jul 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: