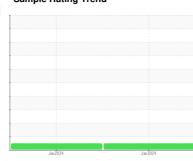


# **OIL ANALYSIS REPORT**

Sample Rating Trend







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.

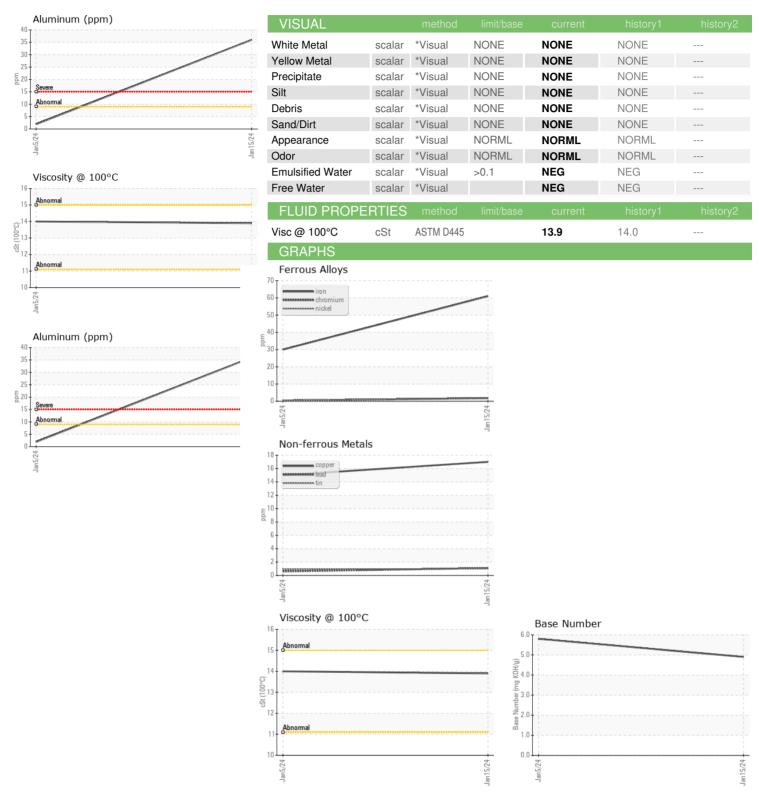
						, Y
			Jan 2024	Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
		Client Info		GFL0098174	GFI 0108341	
Sample Number Sample Date		Client Info		15 Jan 2024	05 Jan 2024	
Machine Age	hrs	Client Info		353	180	
Oil Age	hrs	Client Info		353	180	
Oil Age Oil Changed	1115	Client Info		N/A	N/A	
Sample Status		Ciletit IIIIO		NORMAL	NORMAL	
CONTAMINA	TION	un nălon el	lineit/lenen			
Water	TION	method WC Method	limit/base >0.1	current	history1 NEG	history2
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	61	30	
Chromium	ppm	ASTM D5185m	>4	2	<1	
Nickel	ppm	ASTM D5185m	>2	2	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	36	2	
Lead	ppm	ASTM D5185m	>30	1	<1	
Copper	ppm	ASTM D5185m	>35	17	15	
Tin	ppm	ASTM D5185m	>4	1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		22	14	
Barium	ppm	ASTM D5185m		<1	4	
Molybdenum	ppm	ASTM D5185m		55	49	
Manganese	ppm	ASTM D5185m		13	13	
Magnesium	ppm	ASTM D5185m		758	768	
Calcium	ppm	ASTM D5185m		1129	1150	
Phosphorus	ppm	ASTM D5185m		735	730	
Zinc	ppm	ASTM D5185m		883	880	
Sulfur	ppm	ASTM D5185m		2321	2261	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	33	32	
Sodium	ppm	ASTM D5185m		6	4	
Potassium	ppm	ASTM D5185m	>20	119	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	
Nitration	Abs/cm	*ASTM D7624	>20	11.9	11.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.0	
FLUID DEGRA	ADATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		19.2	19.0	
Page Number (PNI)			>L0	4.0	F 0	

4.9

Base Number (BN) mg KOH/g ASTM D2896



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

Test Package : FLEET

: GFL0098174 : 06063341 : 10834723

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 17 Jan 2024 Recieved

Diagnosed : 18 Jan 2024 : Wes Davis Diagnostician

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)

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO

wmilo@gflenv.com

T: F: