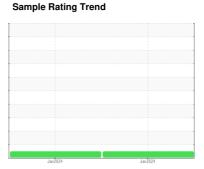


# **OIL ANALYSIS REPORT**







## DIAGNOSIS

### Recommendation

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

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

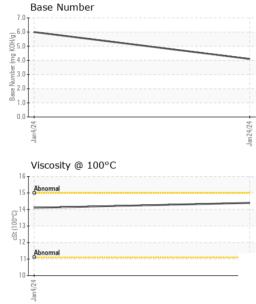
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

.)			Jan 2024	Jan 2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108311	GFL0108344	
Sample Date		Client Info		24 Jan 2024	04 Jan 2024	
Machine Age	hrs	Client Info		440	280	
Oil Age		Client Info		440	280	
Oil Changed	hrs	Client Info		Not Changd	N/A	
Sample Status		Ciletit iiiio		NORMAL		
·	ION		11 11 11			
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	37	30	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>9	2	2	
Lead	ppm	ASTM D5185m	>30	_ 1	<1	
Copper	ppm		>35	17	16	
Tin		ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m	>4	0		
Cadmium	ppm	ASTM D5185m		0	<1 0	
	ppm		11 11 11			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	14	
Barium	ppm	ASTM D5185m		2	2	
Molybdenum	ppm	ASTM D5185m		52	51	
Manganese	ppm	ASTM D5185m		9	8	
Magnesium	ppm	ASTM D5185m		820	806	
Calcium	ppm	ASTM D5185m		1253	1164	
Phosphorus	ppm	ASTM D5185m		704	788	
Zinc	ppm	ASTM D5185m		952	950	
Sulfur	ppm	ASTM D5185m		2398	2398	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	32	29	
Sodium	ppm	ASTM D5185m		4	3	
Potassium		ASTM D5185m	>20	3	3	
	ppm					
INFRA-RED	ррш	method	limit/base	current	history1	history2
			limit/base		•	history2
Soot %	%	*ASTM D7844		0	0.1	
Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>20	0 12.2	0.1	
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30	0 12.2 22.0	0.1 10.7 19.8	
Soot % Nitration Sulfation FLUID DEGRAI	% Abs/cm Abs/.1mm DATION	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	0 12.2 22.0 current	0.1 10.7 19.8 history1	
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30 limit/base	0 12.2 22.0	0.1 10.7 19.8	



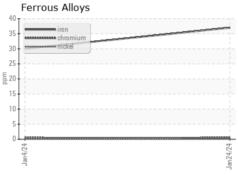
# **OIL ANALYSIS REPORT**



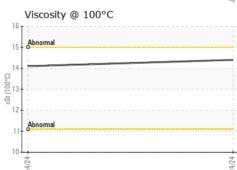
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

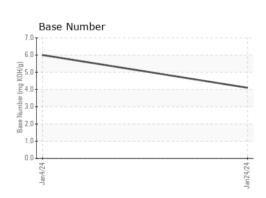
L LOID LUOP	EULIES	memou		HISTORY	HISTORY
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	

## **GRAPHS**



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10848744

: GFL0108311 : 06072067 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 26 Jan 2024 Diagnostician : Wes Davis

: 29 Jan 2024

GFL Environmental - 652 - Fredericksburg Hauling 10954 Houser Drive Fredericksburg, VA

US 22408 Contact: WILLIAM MILO

wmilo@gflenv.com T: F:

\* - 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)