

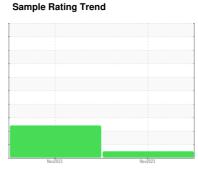
# **OIL ANALYSIS REPORT**

## **NORMAL**



GFL035 934043 Component

**Diesel Engine** NOT GIVEN (40 QTS)





### DIAGNOSIS

### Recommendation

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

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

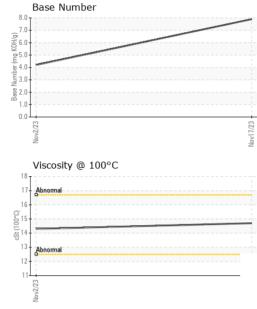
### **Fluid Condition**

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

			Nov2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102298	GFL0085166	
Sample Date		Client Info		17 Nov 2023	02 Nov 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		300	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	12	54	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>2	<1	2	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>20	4	<u>^</u> 24	
Lead	ppm	ASTM D5185m	>40	0	2	
Copper	ppm	ASTM D5185m	>330	3	17	
Tin	ppm	ASTM D5185m	>15	<1	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		34	8	
Barium	ppm	ASTM D5185m		0	10	
Molybdenum	ppm	ASTM D5185m		51	54	
Manganese	ppm	ASTM D5185m		2	13	
Magnesium	ppm	ASTM D5185m		557	706	
Calcium	ppm	ASTM D5185m		1503	1240	
Phosphorus	ppm	ASTM D5185m		725	739	
Zinc	ppm	ASTM D5185m		921	891	
Sulfur	ppm	ASTM D5185m		2601	2518	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	<b>▲</b> 34	
Sodium	ppm	ASTM D5185m		4	2	
Potassium	ppm	ASTM D5185m	>20	12	79	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	7.7	12.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	23.1	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	20.8	
5 11 1 (510)		ACTM DODGC		7.0	4.0	
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	4.2	



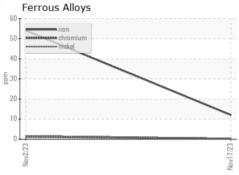
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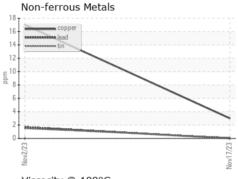


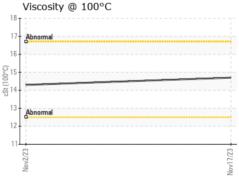
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

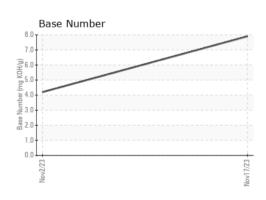
FLUID PROP	ERITES	method	limit/base		history1	history2	
Visc @ 100°C	cSt	ASTM D445		14.7	14.3		

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10751319 Test Package : FLEET

: GFL0102298 : 06012175

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Nov 2023 Diagnosed : 21 Nov 2023

Diagnostician : Wes Davis

High Point, NC US 27263 Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

GFL Environmental - 035 - Greensboro

\* - 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) 1236 Elon Place