

# **OIL ANALYSIS REPORT**

### Sample Rating Trend









(34744UA) Machine Id 813000 Component

Diesel Engine

**DIESEL ENGINE OIL SAE 40 (--- 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.

#### Maar

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

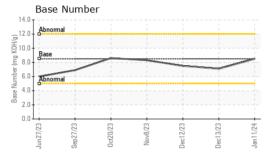
#### **Fluid Condition**

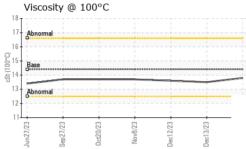
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAE 40 ( GAL)  Junitaria Septiaria Octavia Novidera Decidera Decidera Junitaria						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108329	GFL0098223	GFL0098188
Sample Date		Client Info		11 Jan 2024	13 Dec 2023	12 Dec 2023
Machine Age	hrs	Client Info		3427	2939	3189
Oil Age	hrs	Client Info		3427	2939	3189
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	20	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	4	2
Tin	ppm	ASTM D5185m	>15	1	2	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	11	5	7
Barium	ppm	ASTM D5185m		0	12	0
Molybdenum	ppm	ASTM D5185m	100	61	60	57
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	953	919	1038
Calcium	ppm	ASTM D5185m		1124	1065	1182
Phosphorus	ppm	ASTM D5185m	1150	1078	935	1109
Zinc	ppm	ASTM D5185m	1350	1251	1191	1257
Sulfur	ppm	ASTM D5185m	4250	3081	3075	3387
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m	>216	2	0	0
Potassium	ppm	ASTM D5185m	>20	6	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %		*ASTM D7844	>4	0.6	1	0.8
	%					
Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.7	8.4
Nitration Sulfation			>20			8.4 19.7
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.1	8.7	
Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	7.1 19.0	8.7 20.1	19.7



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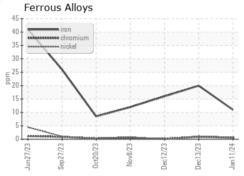


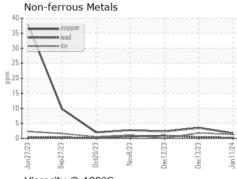


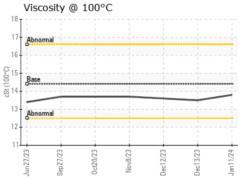
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

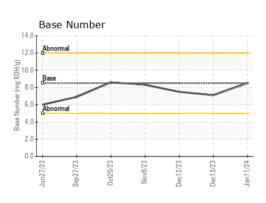
FLUID PROPE	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.5	13.6

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10831465 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108329 : 06060083

Recieved : 12 Jan 2024 Diagnosed : 16 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com

T:

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)

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