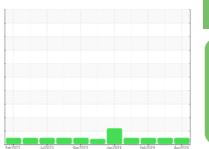


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



Machine Id

**AUTOCAR 812012** 

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.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

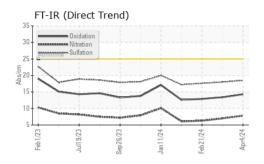
## **Fluid Condition**

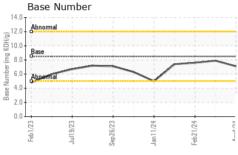
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

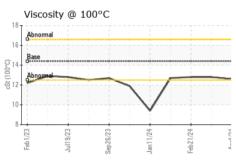
		Feb 2023	Jul2023 Sep2023	Jan2024 Feb2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116793	GFL0116741	GFL0109040
Sample Date		Client Info		04 Apr 2024	20 Mar 2024	21 Feb 2024
Machine Age	hrs	Client Info		5376	5286	5156
Oil Age	hrs	Client Info		5376	5286	5156
Oil Changed		Client Info		N/A	Not Changd	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	>90	5	12	3
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<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	250	13	9	16
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	59	58	55
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	785	842	730
Calcium	ppm	ASTM D5185m	3000	1139	1163	1029
Phosphorus Zinc	ppm	ASTM D5185m	1150	935	1008 1195	929 1060
Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1350 4250	1108 2973	3512	2684
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	2	7	3
Sodium	ppm	ASTM D5185m	>25	2	16	3
Potassium	ppm	ASTM D5185m	>20	4	6	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.0	6.3
Sulfation	Abs/.1mm	*ASTM D7415		18.5	18.0	17.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	13.4	12.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.1	7.9	7.6



# **OIL ANALYSIS REPORT**



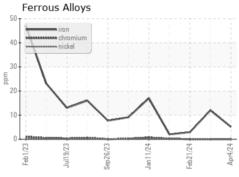


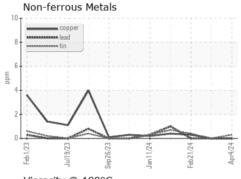


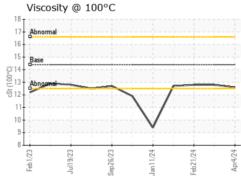
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

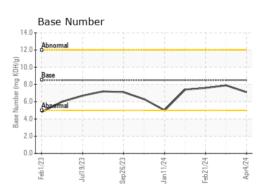
FLUID PRO	DPERILES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.6	12.8	12.8

## **GRAPHS**













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06144934

: GFL0116793 Unique Number : 10969742 Test Package : FLEET

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

Received : 10 Apr 2024 **Tested** Diagnosed

: 11 Apr 2024 : 11 Apr 2024 - Wes Davis

GFL Environmental - 009 - Fairburn

6905 Roosevelt Hwy Fairburn, GA US 30213

Contact: Eric Jones erjones@gflenv.com T: (678)630-9927

\* - 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)