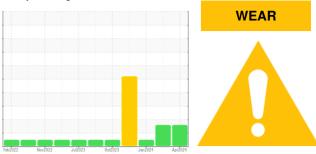


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

### 721054 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## 🔺 Wear

Piston, ring and cylinder wear is indicated.

## Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

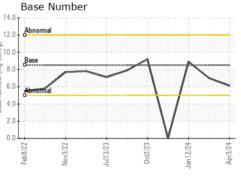
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116583	GFL0111861	GFL0098172
Sample Date		Client Info		03 Apr 2024	07 Mar 2024	12 Jan 2024
Machine Age	hrs	Client Info		7941	7861	7615
Oil Age	hrs	Client Info		1610	1776	1745
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	<b>190</b>	<b>1</b> 83	71
Chromium	ppm	ASTM D5185m	>20	8	8	2
Nickel	ppm	ASTM D5185m	>4	3	3	1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	<u> </u>	6
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	4	4	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	4	5	8
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	53	58	52
Manganese	ppm	ASTM D5185m		2	2	<1
Magnesium	ppm	ASTM D5185m	450	901	877	854
Calcium	ppm	ASTM D5185m	3000	1060	1058	981
Phosphorus	ppm	ASTM D5185m	1150	874	948	1020
Zinc	ppm	ASTM D5185m	1350	1191	1142	1175
Sulfur	ppm	ASTM D5185m	4250	3166	2781	2898
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	11	5
Sodium	ppm	ASTM D5185m	>216	6	7	4
Potassium	ppm	ASTM D5185m	>20	6	10	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.5	2.4	1.8
Nitration	Abs/cm	*ASTM D7624	>20	15.7	13.9	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7	26.3	21.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.2	27.3	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.1	7.0	8.9
	9.09					



# **OIL ANALYSIS REPORT**





current

curren

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

14.2

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

13.8



Sample No. : GFL0116583 Received : 04 Apr 2024 Lab Number : 06138416 Tested : 05 Apr 2024 Unique Number : 10963224 Diagnosed : 06 Apr 2024 - Don Baldridge Test Package : FLEET Certificate 12367 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:

Report Id: GFL652 [WUSCAR] 06138416 (Generated: 04/06/2024 11:50:30) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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