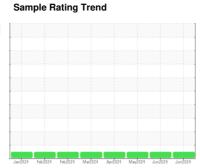


# **OIL ANALYSIS REPORT**



(48031UA) 834027 **Natural Gas Engine** 

DIESEL ENGINE OIL SA





## 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.

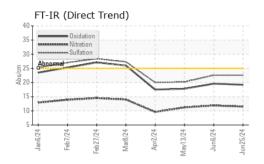
AE 40 ( GAL)		Jan2024 I	Feb 2024 Feb 2024 Mar 20	24 Apr2024 May2024 Jun2024	Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122008	GFL0122033	GFL0116601
Sample Date		Client Info		25 Jun 2024	06 Jun 2024	13 May 2024
Machine Age	hrs	Client Info		1833	1727	1553
Oil Age	hrs	Client Info		1340	1408	1390
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	17	17	16
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	2	2
Lead	ppm	ASTM D5185m	>30	1	<1	1
Copper	ppm	ASTM D5185m	>35	3	4	2
Tin	ppm	ASTM D5185m	>4	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	8	7	14
Barium	ppm	ASTM D5185m	10	<1	0	0
Molybdenum	ppm	ASTM D5185m	100	56	57	54
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	450	619	597	668
Calcium	ppm	ASTM D5185m	3000	1689	1637	1776
Phosphorus	ppm	ASTM D5185m	1150	794	677	865
Zinc	ppm	ASTM D5185m	1350	1062	991	1063
Sulfur	ppm	ASTM D5185m	4250	2719	2490	3010
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	8	9
Sodium	ppm	ASTM D5185m	>216	10	6	5
Potassium	ppm	ASTM D5185m	>20	4	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	22.6	20.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	19.6	17.8
D N	1/01:1	ACTI I DOCCO	0 =		4 =	0.4

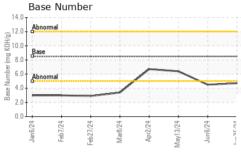
4.7

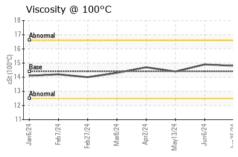
Base Number (BN) mg KOH/g ASTM D2896 8.5



# **OIL ANALYSIS REPORT**



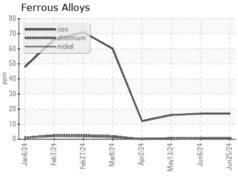


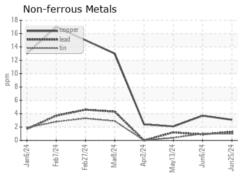


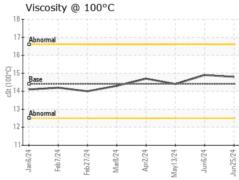
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

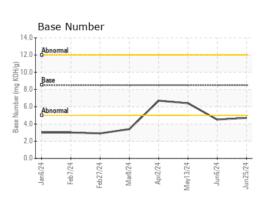
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.8	14.9	14.4

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 11100371

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122008 Lab Number : 06222174

Received : 27 Jun 2024 **Tested** Diagnosed

: 28 Jun 2024 : 28 Jun 2024 - 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) Report Id: GFL652 [WUSCAR] 06222174 (Generated: 06/29/2024 10:52:47) Rev: 1

Test Package : FLEET

Submitted By: TECHNICIAN ACCOUNT

F: