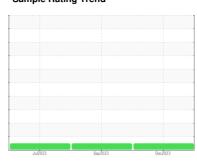


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **819013** 

Component **Diesel Engine** 

DIESEL ENGINE OIL SAE 40 (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Moor

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.

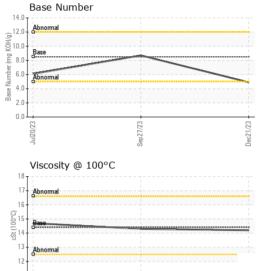
		Ju	12023	Sep 2023 Dec 20	23	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098259	GFL0083869	GFL0083840
Sample Date		Client Info		21 Dec 2023	27 Sep 2023	20 Jul 2023
Machine Age	hrs	Client Info		10419	9801	0
Oil Age	hrs	Client Info		10419	9801	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	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 METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	32	34	33
Chromium	ppm	ASTM D5185m		<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		7	6	22
Lead	ppm	ASTM D5185m	>40	2	<1	2
Copper	ppm	ASTM D5185m		3	3	20
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	250	5	6	4
Barium	ppm	ASTM D5185m	10	0	0	2
Molybdenum	ppm	ASTM D5185m	100	61	57	66
Manganese	ppm	ASTM D5185m	450	<1	<1	1
Magnesium	ppm	ASTM D5185m	450	948	940	897
Calcium	ppm	ASTM D5185m		1086	1044	1168
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1150 1350	961 1223	1031 1261	961 1228
Sulfur	ppm	ASTM D5185m		2568	3181	2860
CONTAMINA		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	11	4
Sodium	ppm	ASTM D5185m	>216	2	2	4
Potassium	ppm	ASTM D5185m	>20	2	2	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.7	1.1
Nitration	Abs/cm	*ASTM D7624	>20	10.8	8.4	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	19.1	22.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	14.8	17.5
Dogo Number (DN)	ma 1/011/a	ACTM DOOGS	0.5	4.0	0.7	C 1

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

4.9



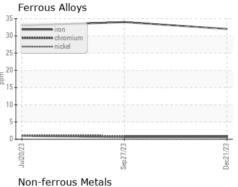
## **OIL ANALYSIS REPORT**

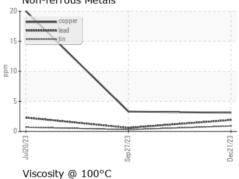


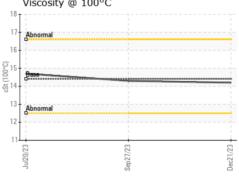
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

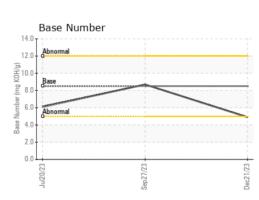
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	14.3	14.7

### **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10816349 Test Package : FLEET

: GFL0098259 : 06050400

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 03 Jan 2024 Diagnosed : 04 Jan 2024 Diagnostician : Don Baldridge

GFL Environmental - 652 - Fredericksburg Hauling 10954 Houser Drive

Fredericksburg, VA US 22408

Contact: WILLIAM MILO wmilo@gflenv.com

T: F:

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] 06050400 (Generated: 01/04/2024 16:26:58) Rev: 1