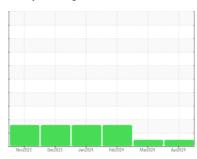


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id
814023
Component

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.

#### Wear

Metal levels are typical for a new component breaking in.

## Contamination

There is no indication of any contamination in the

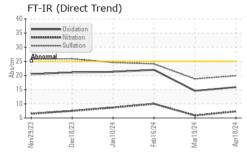
#### **Fluid Condition**

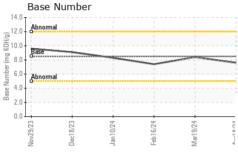
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

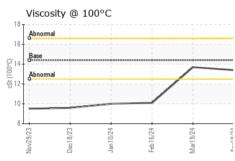
		Nov2023	Dec2023 Jan2024	Feb 2024 Mar 2024	Apr2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119385	GFL0115374	GFL0110887
Sample Date		Client Info		18 Apr 2024	19 Mar 2024	16 Feb 2024
Machine Age	hrs	Client Info		891	729	585
Oil Age	hrs	Client Info		162	144	161
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	12	6	29
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>4	4	2	7
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	2	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	1	6
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	74	50	176
Tin	ppm	ASTM D5185m	>15	2	0	3
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	24	31	231
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	68	65	100
Manganese	ppm	ASTM D5185m		2	<1	4
Magnesium	ppm	ASTM D5185m	450	854	962	640
Calcium	ppm	ASTM D5185m	3000	1080	1191	1538
Phosphorus	ppm	ASTM D5185m	1150	1001	1017	665
Zinc	ppm	ASTM D5185m	1350	1137	1289	831
Sulfur	ppm	ASTM D5185m	4250	2988	3850	2397
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	9	<b>△</b> 64
Sodium	ppm	ASTM D5185m	>216	1	3	3
Potassium	ppm	ASTM D5185m	>20	5	2	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.3	5.9	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.8	24.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	14.6	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.6	8.4	7.4

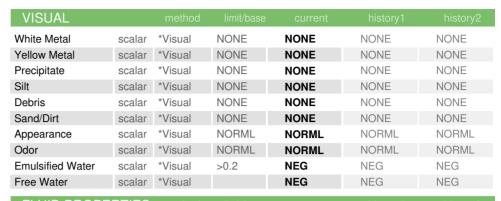


# **OIL ANALYSIS REPORT**



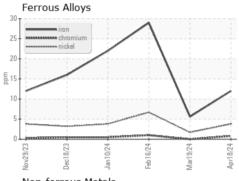


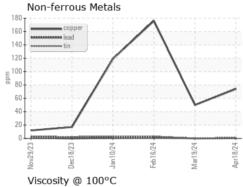


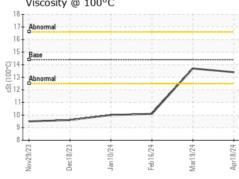


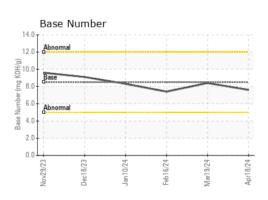
FLUID PROPI	ERIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.7	10.1

### **GRAPHS**













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0119385 Lab Number : 06156772 Unique Number : 10992195

**Tested** 

Received : 22 Apr 2024 : 23 Apr 2024 Diagnosed : 23 Apr 2024 - Wes Davis

GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Koenig bkoenig@gflenv.com

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

T:

F: