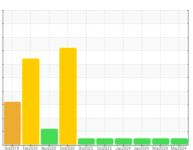


# **OIL ANALYSIS REPORT**

# Sample Rating Trend



NORMAL



# (36J4GJ) Machine Id 225047-603258

Diesel Engine

**DIESEL ENGINE OIL SAE 15W40 (8 Shots)** 

## 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

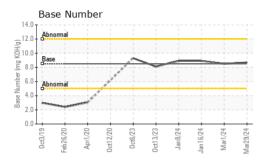
## **Fluid Condition**

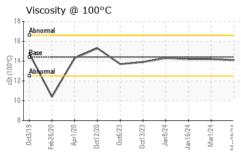
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	Oct2019 Feb2020 Apr2020 Oct2020 Oct2023 Oct2023 Jan2024 Jan2024 Mar2024 Mar2024							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0112225	GFL0098675	GFL0098722		
Sample Date		Client Info		29 Mar 2024	01 Mar 2024	16 Jan 2024		
Machine Age	hrs	Client Info		1286	1168	263550		
Oil Age	hrs	Client Info		600	600	0		
Oil Changed		Client Info		Changed	Changed	Not Changd		
Sample Status				NORMAL	NORMAL	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	6	9	6		
Chromium	ppm	ASTM D5185m	>20	<1	1	<1		
Nickel	ppm	ASTM D5185m	>2	0	0	0		
Titanium	ppm	ASTM D5185m	>2	0	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>25	1	2	1		
Lead	ppm	ASTM D5185m	>40	0	0	0		
Copper	ppm	ASTM D5185m	>330	0	1	<1		
Tin	ppm	ASTM D5185m	>15	<1	0	0		
Vanadium	ppm	ASTM D5185m		0	0	<1		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	250	2	1	<1		
Barium	ppm	ASTM D5185m	10	0	0	0		
Molybdenum	ppm	ASTM D5185m	100	56	60	57		
Manganese	ppm	ASTM D5185m		<1	0	<1		
Magnesium	ppm	ASTM D5185m	450	919	955	1001		
Calcium	ppm	ASTM D5185m	3000	1015	1006	1009		
Phosphorus	ppm	ASTM D5185m	1150	1010	992	1095		
Zinc	ppm	ASTM D5185m	1350	1212	1219	1281		
Sulfur	ppm	ASTM D5185m	4250	3396	2967	3243		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	5	8	6		
Sodium	ppm	ASTM D5185m		<1	2	2		
Potassium	ppm	ASTM D5185m	>20	<1	2	1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1		
Nitration	Abs/cm	*ASTM D7624		5.3	5.4	4.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.2	17.6		
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.8	13.3		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7	8.5	8.9		



# **OIL ANALYSIS REPORT**

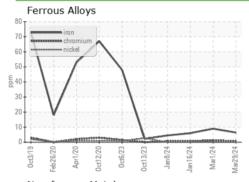


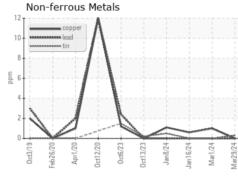


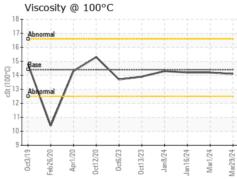
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

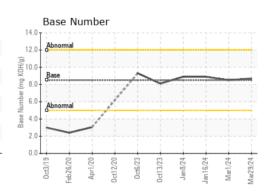
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	14.2	14.2

## **GRAPHS**













Laboratory Sample No.

Lab Number : 06136075 Unique Number : 10955540 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0112225

**Tested** Diagnosed

Received

: 03 Apr 2024 : 03 Apr 2024 - Wes Davis

: 02 Apr 2024

GFL Environmental - 829 - Wilco Hauling 5054 Highway HH

Hartville, MO US 65667

T: (417)349-5006

Contact: James Jones james.jones@gflenv.com

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: GFL829 [WUSCAR] 06136075 (Generated: 04/03/2024 04:35:06) Rev: 1

Submitted By: Jerry Hazel