

# **OIL ANALYSIS REPORT**

(36J4GJ) Machine Id 225047-603258

Diesel Engine

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

# 0x2019 Feb2020 Apx2020 Oct2020 Oct2023 Oct2023 Jan/2024

Sample Rating Trend



# 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

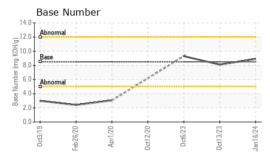
### **Fluid Condition**

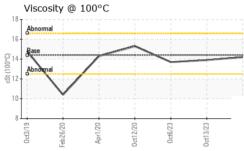
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Oct2019	Feb2020 Apr2020	Oct2020 Oct2023 Oct2023	Jan2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098722	GFL0065472	GFL0065459
Sample Date		Client Info		16 Jan 2024	13 Oct 2023	06 Oct 2023
Machine Age	mls	Client Info		263550	692	46
Oil Age	mls	Client Info		0	150	150
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	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 METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	2	48
Chromium	ppm	ASTM D5185m		<1	0	2
Nickel	ppm	ASTM D5185m	>2	0	3	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		1	<1	2
Lead	ppm	ASTM D5185m	>40	0	0	2
Copper	ppm	ASTM D5185m		<1	0	1
Tin		ASTM D5185m	>15	0	<1	2
Antimony	ppm	ASTM D5185m	>10			
Vanadium	ppm	ASTM D5185m		<1	0	0
	ppm			0	0	0
Cadmium	ppm	ASTM D5185m	12 - 25 //	-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<1	3	4
Barium	ppm	ASTM D5185m	10	0	<1	0
Molybdenum	ppm	ASTM D5185m	100	57	59	57
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	1001	952	934
Calcium	ppm	ASTM D5185m	3000	1009	1006	1037
Phosphorus	ppm	ASTM D5185m	1150	1095	1048	1034
Zinc	ppm	ASTM D5185m	1350	1281	1271	1256
Sulfur	ppm	ASTM D5185m	4250	3243	3118	2982
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	3	6
Sodium	ppm	ASTM D5185m	>158	2	2	3
Potassium	ppm	ASTM D5185m	>20	1	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	1.5
Nitration	Abs/cm	*ASTM D7624	>20	4.7	5.1	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.6	20.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.3	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.9	8.1	9.3
(214)		=====				



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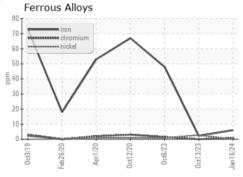


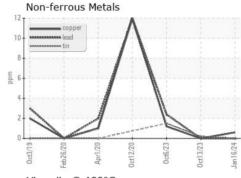


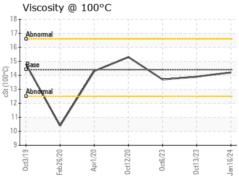
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

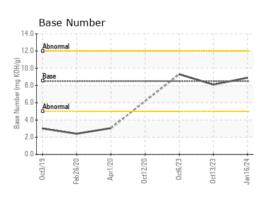
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	13.9	13.7	

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10836242 Test Package : FLEET

: GFL0098722 : 06064860

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed Diagnostician : Wes Davis

: 19 Jan 2024

US 65667 Contact: James Jones

GFL Environmental - 829 - Wilco Hauling

james.jones@gflenv.com T: (417)349-5006

5054 Highway HH

Hartville, MO

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)