

# **OIL ANALYSIS REPORT**

## - Sai









# Rent513 Component Diesel Engine Fluid

**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

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

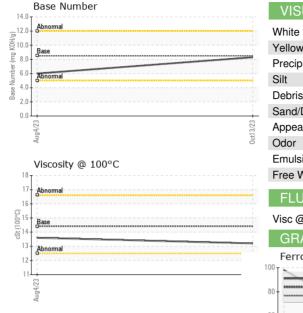
### **Fluid Condition**

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)	)		Aug2023	Oct2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080514	GFL0080583	
Sample Date		Client Info		13 Oct 2023	04 Aug 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	4	<b>9</b> 8	
Chromium	ppm	ASTM D5185m	>5	0	2	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>30	0	25	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm		>150	<1	16	
Fin		ASTM D5185m	>5	0	<1	
/anadium	ppm	ASTM D5185m	>5	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	25	1	
Barium	ppm	ASTM D5185m	10	2	0	
Molybdenum	ppm	ASTM D5185m	100	- 57	62	
Manganese	ppm	ASTM D5185m	100	<1	1	
Magnesium		ASTM D5185m	450	763	904	
Calcium	ppm	ASTM D5185m	3000	967	1118	
	ppm	ASTM D5185m	1150	882	986	
Phosphorus Zinc	ppm	ASTM D5185m	1350	1002	1212	
Sulfur	ppm	ASTM D5185m	4250	2686	2570	
CONTAMINA		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	11	
Sodium	ppm	ASTM D5185m	>216	0	0	
Potassium	ppm	ASTM D5185m	>20	1	52	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1.2	
Nitration	Abs/cm	*ASTM D7624		4.7	12.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	25.0	
FLUID DEGRA	NOITAD.	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.1	24.1	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.3	6.0	



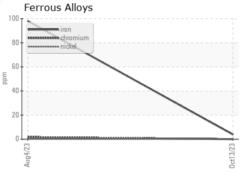
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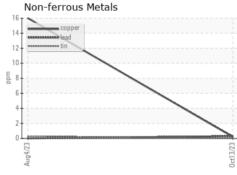


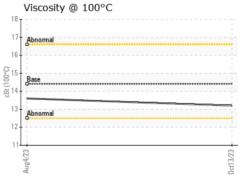
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

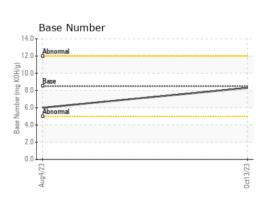
L LOID LUCLI		memod			HISTORY	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	13.6	

# **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10696776

: GFL0080514 : 05979481 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 Diagnosed : 17 Oct 2023

Diagnostician : Wes Davis

GFL Environmental - 018 - Fayetteville 4621 Marracco Drive

Hope Mills, NC US 28348 Contact: Robert Carter

robert.carter@gflenv.com T: (910)596-1170

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)