

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 713008

Fluid

Component Diesel Engine

## DIESEL ENGINE OIL SAE 40 (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

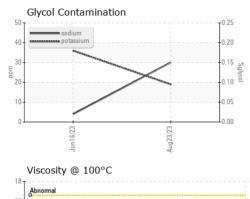
### Fluid Condition

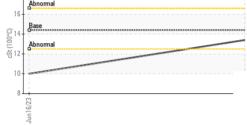
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

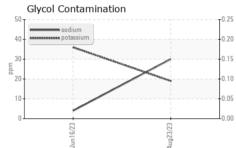
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085374	GFL0077356	
Sample Date		Client Info		23 Aug 2023	16 Jun 2023	
Machine Age	hrs	Client Info		1024	530	
Oil Age	hrs	Client Info		494	530	
Oil Changed	1113	Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
-				-	-	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.5	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	23	
Chromium	ppm	ASTM D5185m	>20	1	1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	8	14	
Lead	ppm	ASTM D5185m	>40	1	<1	
Copper	ppm	ASTM D5185m	>330	4	13	
Tin	ppm	ASTM D5185m	>15	1	1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	10	242	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	62	116	
Manganese	ppm	ASTM D5185m		1	4	
Magnesium	ppm	ASTM D5185m	450	830	707	
Calcium	ppm	ASTM D5185m	3000	1146	1492	
Phosphorus	ppm	ASTM D5185m	1150	938	725	
Zinc	ppm	ASTM D5185m	1350	1171	886	
Sulfur	ppm	ASTM D5185m	4250	3440	2936	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	<b>A</b> 84	
Sodium	ppm	ASTM D5185m	>216	30	4	
Potassium	ppm	ASTM D5185m	>20	19	36	
Glycol	%	*ASTM D2982		NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624		7.6	9.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	25.3	
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	22.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.0	8.7	
	ing itoring		0.0	0.0	0.1	

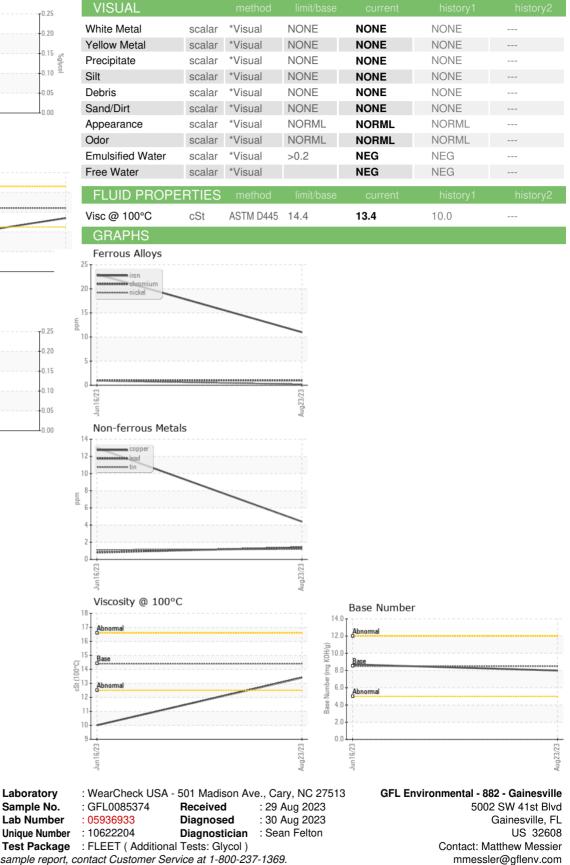


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To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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