

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **213042** Component **Diesel Engine** Fluid {not provided} (--- GAL)

# DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample. 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

Light fuel dilution occurring. No other contaminants were detected 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111902	GFL0098217	
Sample Date		Client Info		19 Mar 2024	20 Jan 2024	
Machine Age	mls	Client Info		12280	9248	
Oil Age	mls	Client Info		12280	9248	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				MARGINAL	MARGINAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	26	14	
Chromium	ppm	ASTM D5185m	>20	3	1	
Nickel	ppm	ASTM D5185m	>4	1	0	
Titanium	ppm	ASTM D5185m		2	2	
Silver	ppm	ASTM D5185m	>3	3	1	
Aluminum	ppm	ASTM D5185m	>20	6	1	
Lead	ppm	ASTM D5185m	>40	3	0	
Copper	ppm	ASTM D5185m	>330	6	5	
Tin	ppm	ASTM D5185m	>15	2	0	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		96	115	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		5	1	
Manganese	ppm	ASTM D5185m		2	1	
Magnesium	ppm	ASTM D5185m		690	740	
Calcium	ppm	ASTM D5185m		1264	1307	
Phosphorus	ppm	ASTM D5185m		1051	974	
Zinc	ppm	ASTM D5185m		1108	1177	
Sulfur	ppm	ASTM D5185m		3636	3615	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	10	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	6	3	
Fuel	%	ASTM D3524	>5	<b>4.8</b>	4.2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	7.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	19.4	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	14.3	
Base Number (BN)	mg KOH/g	ASTM D2896		6.7	7.5	



# **OIL ANALYSIS REPORT**

method

limit/base

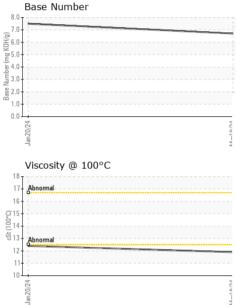
current

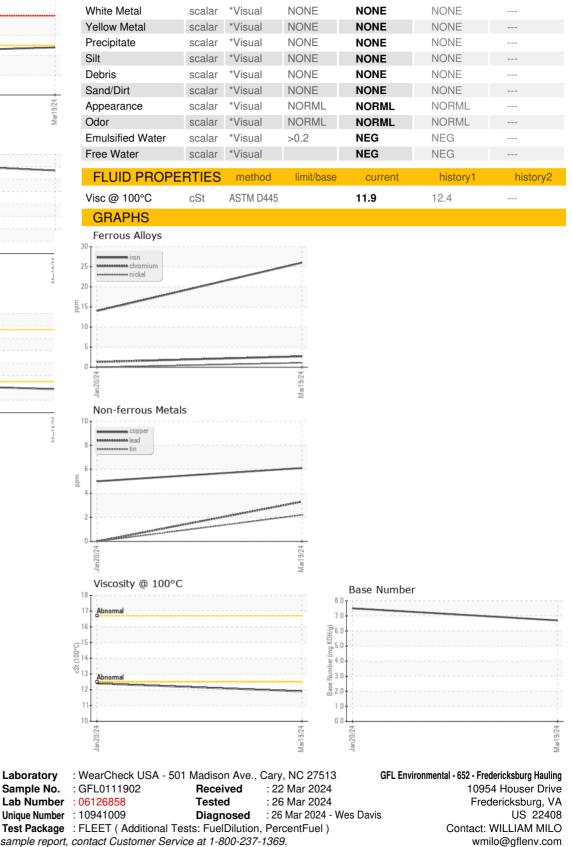
history1

history2

VISUAL







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

Submitted By: TECHNICIAN ACCOUNT

T:

F: