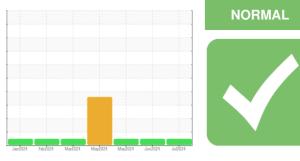


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Area (48044UA) Machine Id 934033 Component Natural Gas Engli Fuid DIESEL ENGINE

934033 Component Natural Gas Engine Fluid

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

### DIAGNOSIS Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

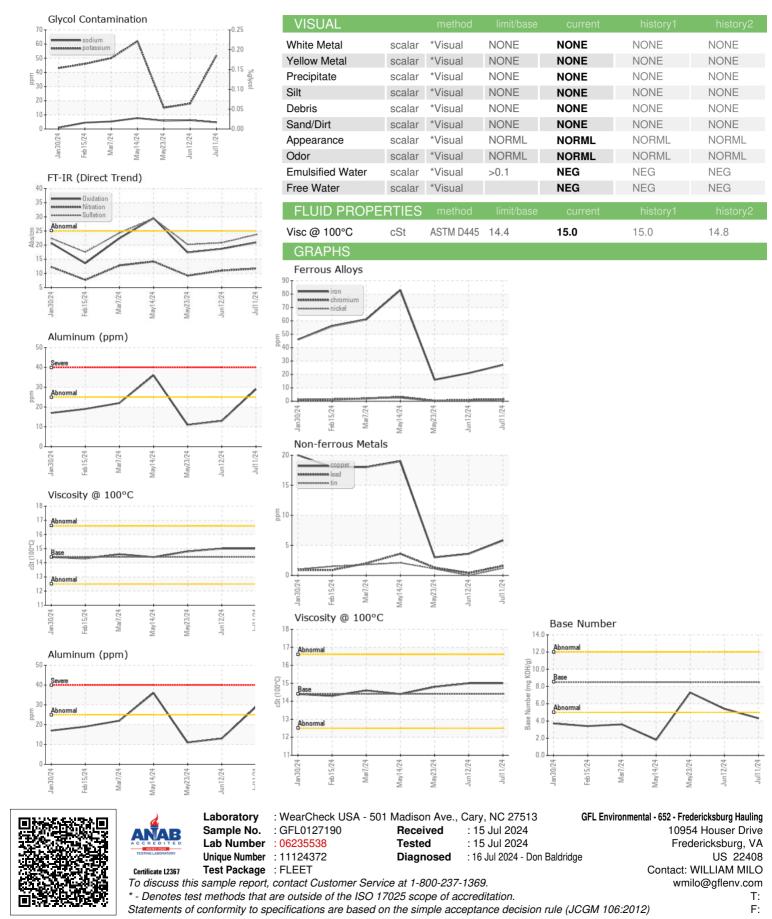
#### Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0127190	GFL0116549	GFL0122058
Sample Date		Client Info		11 Jul 2024	12 Jun 2024	23 May 2024
Machine Age	hrs	Client Info		1851	1588	1323
Oil Age	hrs	Client Info		1851	1588	1323
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	27	21	16
Chromium	ppm	ASTM D5185m	>5	2	1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	29	13	11
Lead	ppm	ASTM D5185m	>40	2	<1	1
Copper	ppm	ASTM D5185m	>150	6	4	3
Tin	ppm	ASTM D5185m	>4	1	0	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	11	24
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum	ppm	ASTM D5185m	100	63	56	50
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	450	624	582	621
Calcium	ppm	ASTM D5185m	3000	1706	1589	1514
Phosphorus	ppm	ASTM D5185m	1150	699	748	802
Zinc	ppm	ASTM D5185m	1350	987	1027	929
Sulfur	ppm	ASTM D5185m	4250	2146	2672	2752
CONTAMINAN	то					biotom/0
	15	method	limit/base	current	history1	history2
Silicon	ppm	method ASTM D5185m	limit/base	15	history1 9	8
Silicon Sodium			>25			
	ppm	ASTM D5185m	>25 >216	15	9	8
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >216	15 5	9	8
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >216 >20	15 5 52	9 6 18	8 6 15
Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >216 >20 limit/base	15 5 52 current	9 6 18 history1	8 6 15 history2
Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *ASTM D7844	>25 >216 >20 limit/base	15 5 52 current 0	9 6 18 history1 0	8 6 15 history2 0
Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m • Method *ASTM D7844 * ASTM D7624	>25 >216 >20 limit/base	15 5 52 current 0 11.7	9 6 18 history1 0 11.0	8 6 15 history2 0 9.2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >216 >20 limit/base >20 >20 >30	15 5 52 current 0 11.7 23.7	9 6 18 history1 0 11.0 20.8	8 6 15 history2 0 9.2 20.2
Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624 Method	>25 >216 >20 limit/base >20 >30 limit/base	15 5 52 current 0 11.7 23.7 current	9 6 18 history1 0 11.0 20.8 history1	8 6 15 history2 0 9.2 20.2 history2



# **OIL ANALYSIS REPORT**



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Submitted By: TECHNICIAN ACCOUNT