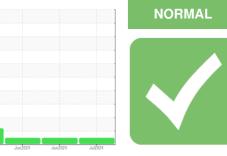


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

434029 Component Natural Gas Engine Fluid {not provided} (--- 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

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. There is no indication of any contamination in the oil.

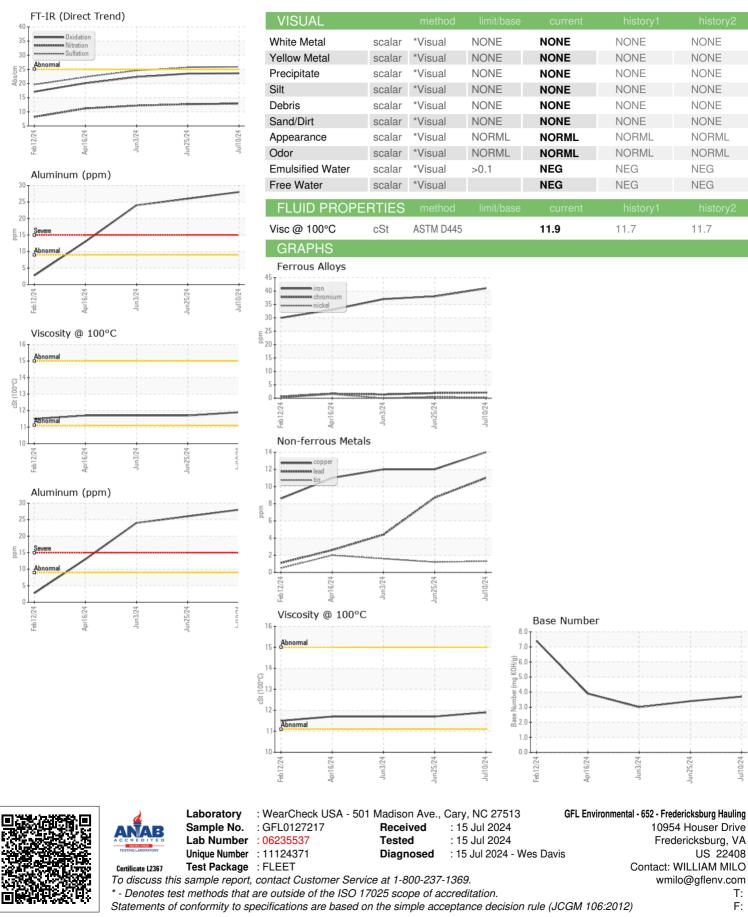
### Fluid Condition

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

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0127217	GFL0122014	GFL0116584
Sample Date		Client Info		10 Jul 2024	25 Jun 2024	03 Jun 2024
Machine Age	hrs	Client Info		1225	1117	947
Oil Age	hrs	Client Info		1055	170	947
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	41	38	37
Chromium	ppm	ASTM D5185m	>4	2	2	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	28	26	24
Lead	ppm	ASTM D5185m	>30	11	9	4
Copper	ppm	ASTM D5185m	>35	14	12	12
Tin	ppm	ASTM D5185m	>4	1	1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	5	9
D .		AOTH DELOF		7	0	-
Barium	ppm	ASTM D5185m		1	6	7
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		57	50	52
Molybdenum	ppm	ASTM D5185m		57	50	52
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		57 4	50 4	52 4
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		57 4 804 1321 702	50 4 754	52 4 809
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		57 4 804 1321	50 4 754 1181	52 4 809 1194 727 881
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		57 4 804 1321 702	50 4 754 1181 722	52 4 809 1194 727
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	57 4 804 1321 702 942	50 4 754 1181 722 898	52 4 809 1194 727 881
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >+100	57 4 804 1321 702 942 2233	50 4 754 1181 722 898 2360	52 4 809 1194 727 881 2501 history2 91
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		57 4 804 1321 702 942 2233 current	50 4 754 1181 722 898 2360 history1	52 4 809 1194 727 881 2501 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100	57 4 804 1321 702 942 2233 current 88	50 4 754 1181 722 898 2360 history1 80	52 4 809 1194 727 881 2501 history2 91
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100	57 4 804 1321 702 942 2233 current 88 3	50 4 754 1181 722 898 2360 history1 80 6	52 4 809 1194 727 881 2501 history2 91 7
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100 >20	57 4 804 1321 702 942 2233 <u>current</u> 88 3 93	50 4 754 1181 722 898 2360 history1 80 6 81	52 4 809 1194 727 881 2501 history2 91 7 80
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>+100 >20 limit/base	57 4 804 1321 702 942 2233 current 88 3 93 current	50 4 754 1181 722 898 2360 history1 80 6 81 kistory1	52 4 809 1194 727 881 2501 history2 91 7 80 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>+100 >20 limit/base >20	57 4 804 1321 702 942 2233 current 88 3 93 current 0	50 4 754 1181 722 898 2360 history1 80 6 81 81 history1 0	52 4 809 1194 727 881 2501 history2 91 7 80 history2 0.1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm r spm ppm ppm ppm ppm ppm spm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624	>+100 >20 limit/base >20	57 4 804 1321 702 942 2233 current 88 3 93 current 0 12.9	50 4 754 1181 722 898 2360 history1 80 6 81 6 81 history1 0 12.7	52 4 809 1194 727 881 2501 history2 91 7 80 history2 0.1 12.2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm r spm ppm ppm ppm ppm ppm spm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624	>+100 >20 limit/base >20 >30	57 4 804 1321 702 942 2233 current 88 3 93 current 0 12.9 25.9	50 4 754 1181 722 898 2360 history1 80 6 81 history1 0 12.7 25.7	52 4 809 1194 727 881 2501 history2 91 7 80 history2 0.1 12.2 24.6



# **OIL ANALYSIS REPORT**



Submitted By: TECHNICIAN ACCOUNT

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