

### **OIL ANALYSIS REPORT**

I

Sample Rating Trend

**FUEL** 

# ALFRED - G020397548

Diesel Engine Fluid NAPA Motor Oil 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

#### 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

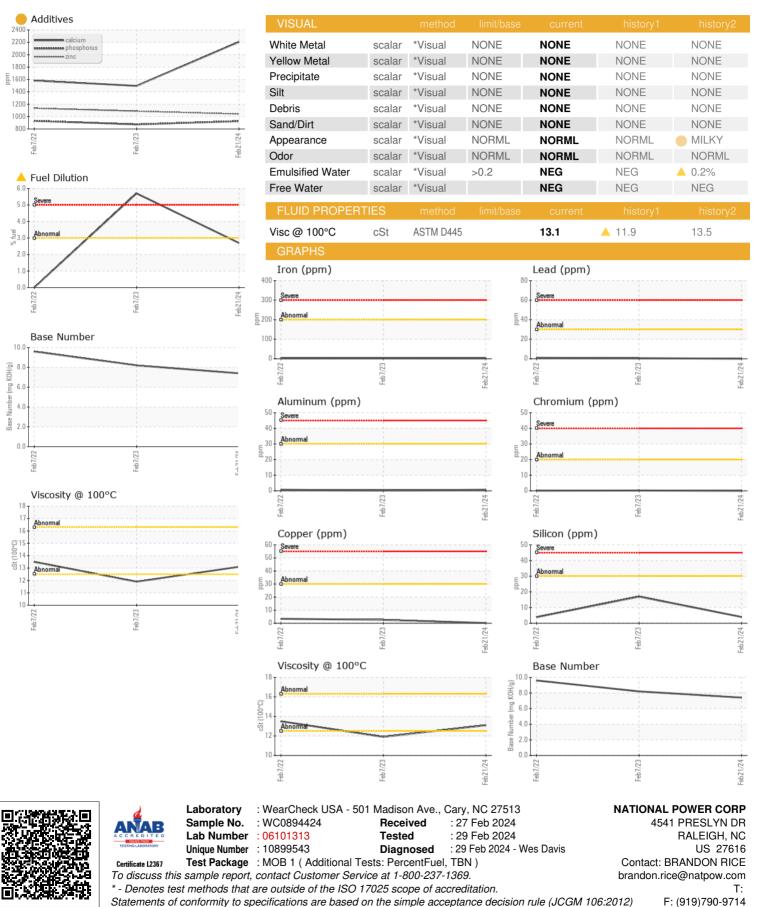
Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			2022	Feb2023 Feb20		history
SAMPLE INFORM	VIATION	method Client Info	limit/base		history1	history2
Sample Number		Client Info		WC0894424 21 Feb 2024	WC0771552 07 Feb 2023	WC0637055 07 Feb 2022
Sample Date	bro					
Machine Age	hrs	Client Info Client Info		716	659 25	652 21
Oil Age	hrs	Client Info		24 Not Changd	Not Changd	Not Changd
Oil Changed Sample Status		Client Into		ATTENTION	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	1	3	2
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	<1	<1	<1
Lead	ppm	ASTM D5185m	>30	0	<1	1
Copper	ppm	ASTM D5185m	>30	<1	3	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	94	43
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		14	73	65
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		932	419	435
Calcium	ppm	ASTM D5185m		<mark> </mark> 2206	1496	1582
Phosphorus	ppm	ASTM D5185m		926	874	931
Zinc	ppm	ASTM D5185m		1042	1088	1136
Sulfur	ppm	ASTM D5185m		3720	3170	2770
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	17	4
Sodium	ppm	ASTM D5185m		1	2	3
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Fuel	%	ASTM D3524	>3.0	<u> </u>	▲ 5.7	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.1	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	18.8	19.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.9	15.8	16.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	8.2	9.6
51:49) Pov: 1 Contact/Location: BDANDON DICE NATRAL						

Contact/Location: BRANDON RICE - NATRAL



## **OIL ANALYSIS REPORT**



Contact/Location: BRANDON RICE - NATRAL