

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# ST CLAIR SHORES GEN 2 - 3006446978

**Diesel Engine** 

NAPA Motor Oil 15W40 (--- 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

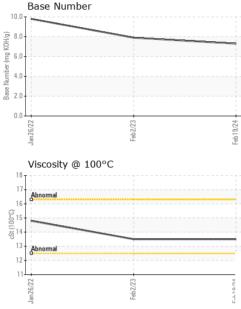
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

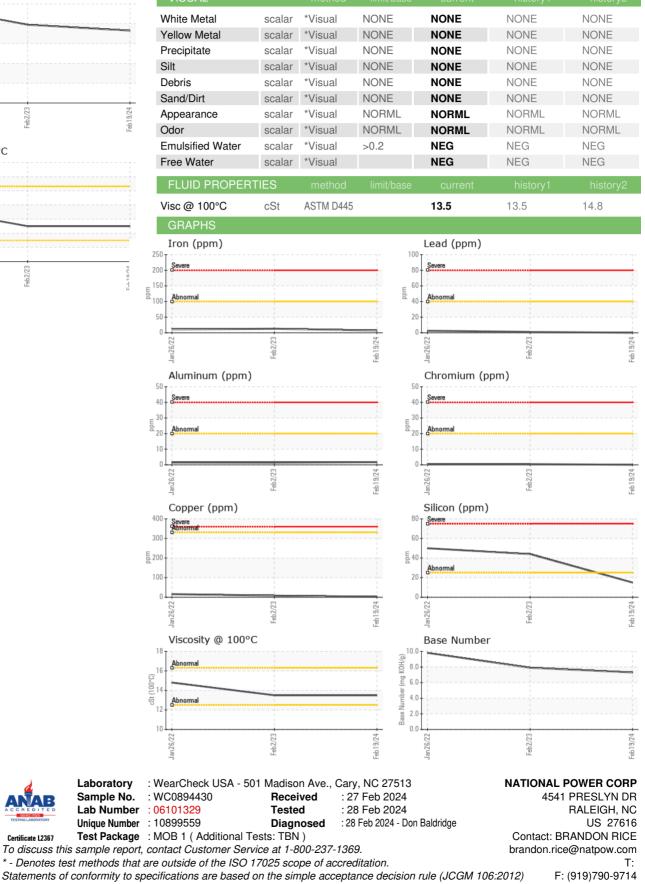
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0894430	WC0771547	WC0637056
Sample Date		Client Info		19 Feb 2024	02 Feb 2023	26 Jan 2022
Machine Age	hrs	Client Info		121	78	47
Oil Age	hrs	Client Info		34	16	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	13	11
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	0	1	3
Copper	ppm	ASTM D5185m	>330	3	8	16
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		42	57	30
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		57	73	48
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		50	182	375
Calcium	ppm	ASTM D5185m		2195	1944	1809
Phosphorus	ppm	ASTM D5185m		1010	992	986
Zinc	ppm	ASTM D5185m		1144	1162	1160
Sulfur	ppm	ASTM D5185m		3787	3779	3281
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	44	50
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.8	6.6	4.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	18.3	22.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.4	18.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	7.9	9.8
):30:59) Bev: 1				Contact/Locati	on BRANDON	RICE - NATRAI

Contact/Location: BRANDON RICE - NATRAL



## **OIL ANALYSIS REPORT**





Certificate L2367

Contact/Location: BRANDON RICE - NATRAL