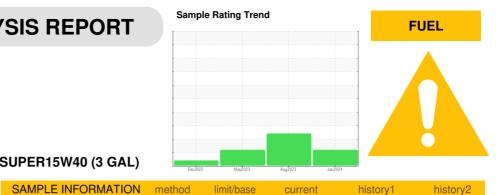


OIL ANALYSIS REPORT





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.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

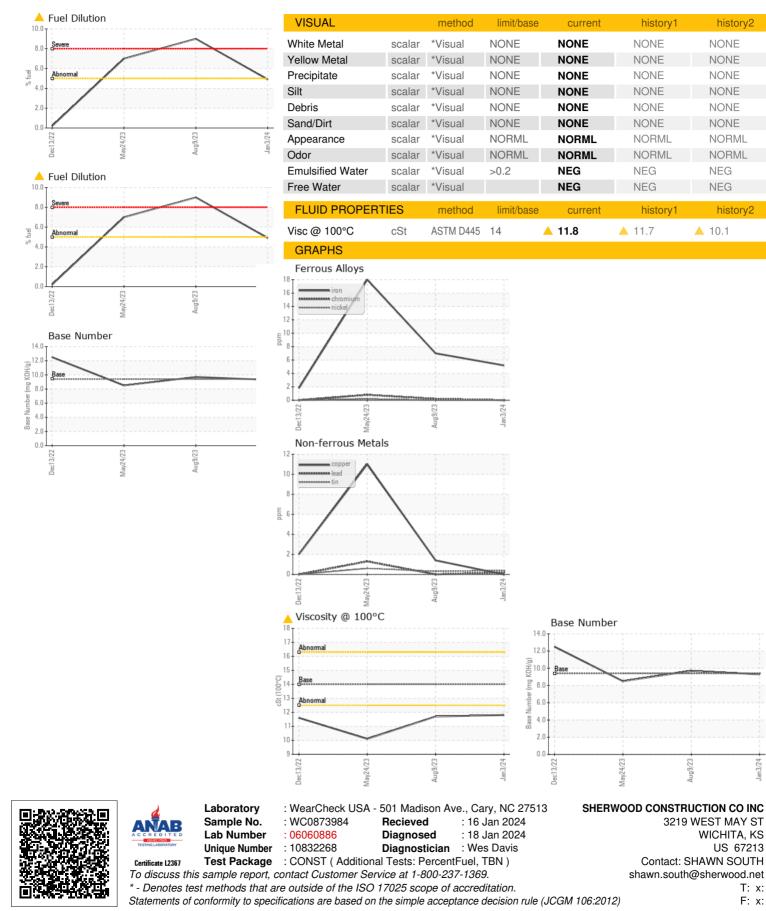
Fluid Condition

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	IATION	method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		WC0873984	WC0848913	WC0808099
Sample Date		Client Info		03 Jan 2024	09 Aug 2023	24 May 2023
Machine Age	hrs	Client Info		2040	1684	1372
Oil Age	hrs	Client Info		356	250	672
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL
		method	limit/base	ou we ont	biotomit	bistory Q
CONTAMINATION	N			current	history1	history2
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	5	7	18
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	<1	2
Lead	ppm	ASTM D5185m	>40	_ <1	0	1
Copper	ppm	ASTM D5185m	>330	0	1	11
Tin	ppm	ASTM D5185m	>15	<1	<1	<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	0	46	43	35
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	0	37	38	38
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	0	478	495	446
Calcium	ppm	ASTM D5185m		1490	1604	1624
Phosphorus	ppm	ASTM D5185m		743	730	823
Zinc	ppm	ASTM D5185m		865	869	1021
Sulfur	ppm	ASTM D5185m		2384	2745	2805
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	6
Sodium	ppm	ASTM D5185m		1	2	4
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Fuel	%	ASTM D3524	>5	<u> </u>	9.0	▲ 7.0
		method	limit/base	current	history1	history2
INFRA-RED						
	%	*ASTM D7844	>3	0.2	0.2	0.3
Soot %	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.2 8.1	0.2 8.3	0.3
	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20	0.2 8.1 21.5	0.2 8.3 21.7	0.3 10.4 23.4
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	8.1	8.3	10.4
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	8.1 21.5	8.3 21.7	10.4 23.4



OIL ANALYSIS REPORT



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