

# **OIL ANALYSIS REPORT**

Base Number (BN) mg KOH/g ASTM D2896 8.5

## Area UTILITIES Machine Id **OS1-GEN** Component

Auxilary Power Unit Natural Gas Engine **DIESEL ENGINE OIL SAE 5W30 (5 QTS)** 

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

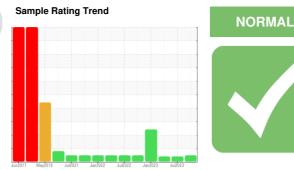
Metal levels are typical for a new component breaking in.

### 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 suitable for further service.



SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0840390	WC0840394	WC0736982
Sample Date		Client Info		13 Nov 2023	24 Jul 2023	28 Apr 2023
Machine Age	hrs	Client Info		217	207	170
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	8	4
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	1
Lead	ppm	ASTM D5185m	>30	9	17	12
Copper	ppm	ASTM D5185m	>35	3	2	2
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	148	109	116
Barium	ppm	ASTM D5185m	10	7	0	0
Molybdenum	ppm	ASTM D5185m	100	130	222	198
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	517	604	556
Calcium	ppm	ASTM D5185m	3000	1113	1455	1272
Phosphorus	ppm	ASTM D5185m	1150	728	771	725
Zinc	ppm	ASTM D5185m	1350	758	954	899
Sulfur	ppm	ASTM D5185m	4250	2554	3160	3180
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	19	17
Sodium	ppm	ASTM D5185m		0	4	3
Potassium	ppm	ASTM D5185m	>20	1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	5.0	6.3	4.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.8	16.2	13.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.3	10.8	9.3

7.46

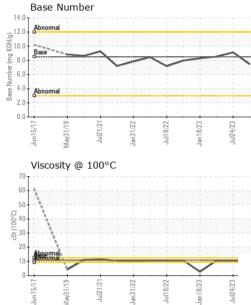
9.13

8.51

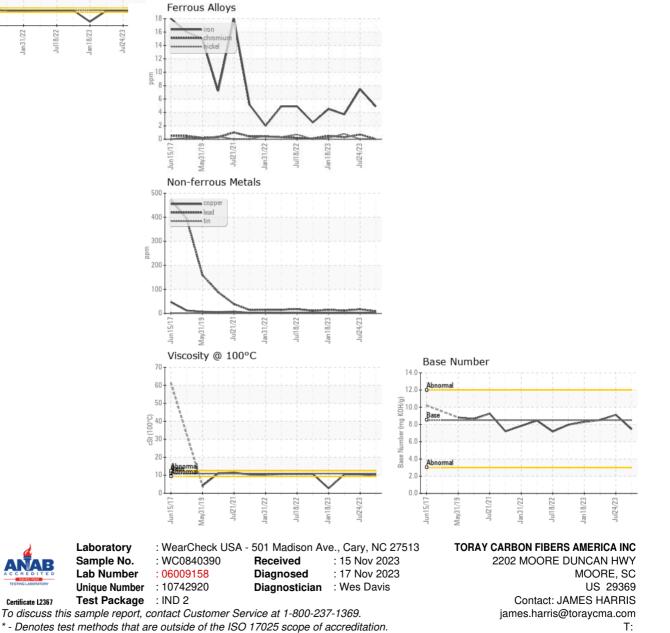


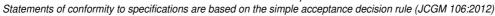
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	9.9	<b>1</b> 0.5	▲ 10.5
GRAPHS						





Certificate L2367

F: