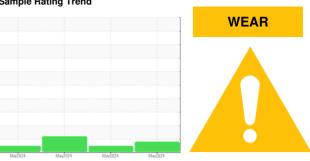


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



Machine Id

# **BONE CANNON 3**

Component Hydraulic System

{not provided} (--- GAL)

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The copper level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

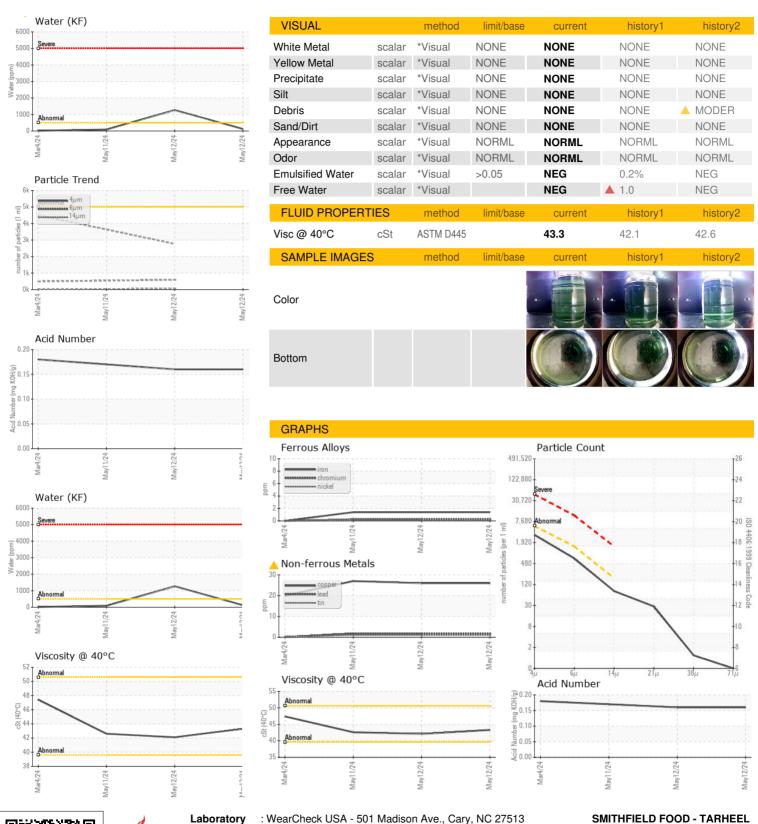
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Mar202	4 May2024	May2024 Ma	n/2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011888	USP0011886	USP0011890
Sample Date		Client Info		12 May 2024	12 May 2024	11 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL		ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	1	1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>20	2	2	2
Copper	ppm	ASTM D5185m	>20	<u>^</u> 26	<u>^</u> 26	<u>^</u> 27
Tin	ppm	ASTM D5185m	>20	1	1	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		1	<1	1
Calcium	ppm	ASTM D5185m		24	23	24
Phosphorus	ppm	ASTM D5185m		202	205	215
Zinc	ppm	ASTM D5185m		169	168	176
Sulfur	ppm	ASTM D5185m		3110	3261	3376
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	1
Sodium	ppm	ASTM D5185m		9	8	9
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>0.05	0.011	△ 0.127	0.008
ppm Water	ppm	ASTM D6304	>500	120	<u> 1270</u>	88
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	2768		
Particles >6µm		ASTM D7647	>1300	591		
Particles >14μm		ASTM D7647	>160	69		
Particles >21μm		ASTM D7647	>40	25		
Particles >38μm		ASTM D7647	>10	1		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/13		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.16	0.16	0.17



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number : 06180203 Unique Number : 11031529

Test Package : IND 2

: USP0011888

Received

: 15 May 2024 **Tested** : 16 May 2024 Diagnosed

: 18 May 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SMITAR [WUSCAR] 06180203 (Generated: 05/18/2024 14:58:05) Rev: 1

15855 HWY. 87 WEST

Contact: SERVICE MANAGER

TARHEEL, NC

US 28392

T:

F: