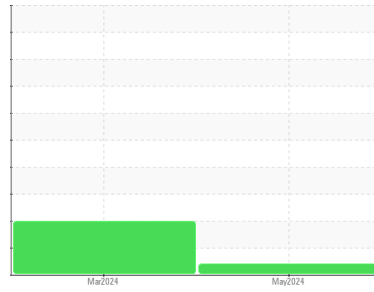




# OIL ANALYSIS REPORT

## Sample Rating Trend



VIS DEBRIS



Machine Id

## BONE CANNON 2

Component

### Hydraulic System

Fluid

### AW HYDRAULIC OIL ISO 46 (--- GAL)

#### DIAGNOSIS

##### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

##### Wear

All component wear rates are normal.

##### Contamination

Moderate concentration of visible dirt/debris present in the oil.

##### Fluid Condition

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

#### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0011889	USP0007454	---
Sample Date	Client Info		11 May 2024	04 Mar 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

#### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<1	0	---
Chromium	ppm	ASTM D5185m >20	<1	0	---
Nickel	ppm	ASTM D5185m >20	<1	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >20	2	0	---
Lead	ppm	ASTM D5185m >20	<1	0	---
Copper	ppm	ASTM D5185m >20	7	0	---
Tin	ppm	ASTM D5185m >20	<1	0	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

#### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	0	---
Barium	ppm	ASTM D5185m 5	0	1	---
Molybdenum	ppm	ASTM D5185m 5	<1	0	---
Manganese	ppm	ASTM D5185m	0	0	---
Magnesium	ppm	ASTM D5185m 25	1	2	---
Calcium	ppm	ASTM D5185m 200	39	42	---
Phosphorus	ppm	ASTM D5185m 300	377	335	---
Zinc	ppm	ASTM D5185m 370	425	402	---
Sulfur	ppm	ASTM D5185m 2500	973	723	---

#### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	0	---
Sodium	ppm	ASTM D5185m	9	15	---
Potassium	ppm	ASTM D5185m >20	2	0	---
Water	%	ASTM D6304 >0.05	0.038	0.001	---
ppm Water	ppm	ASTM D6304 >500	385	12	---

#### FLUID CLEANLINESS

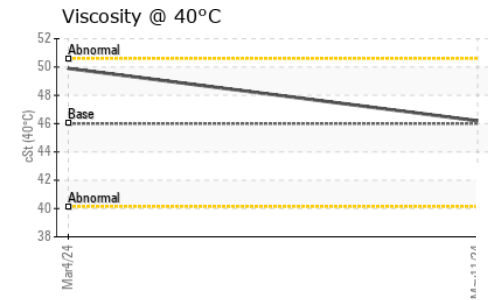
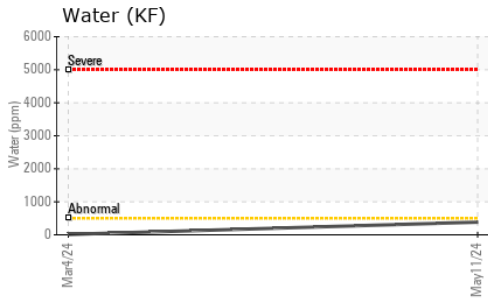
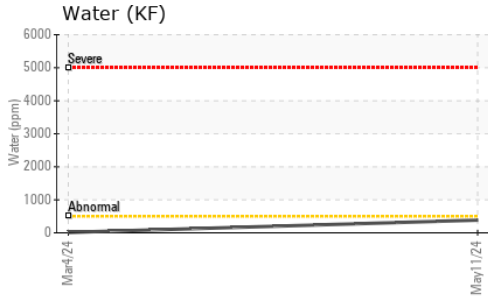
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	---	▲ 84793	---
Particles >6µm	ASTM D7647	>1300	---	▲ 33493	---
Particles >14µm	ASTM D7647	>160	---	▲ 2244	---
Particles >21µm	ASTM D7647	>40	---	▲ 349	---
Particles >38µm	ASTM D7647	>10	---	2	---
Particles >71µm	ASTM D7647	>3	---	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	---	▲ 24/22/18	---

#### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.43	0.43	---





# OIL ANALYSIS REPORT



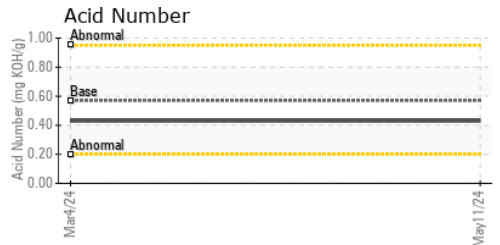
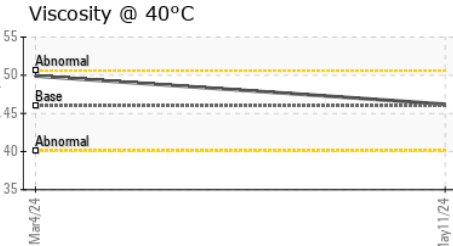
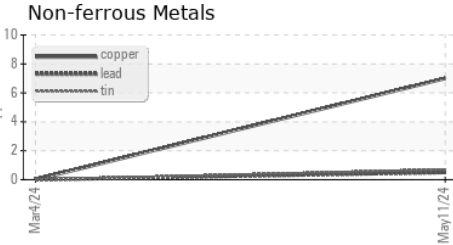
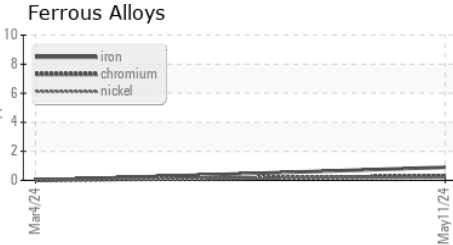
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	46.2	49.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image
Bottom			no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0011889      **Received** : 15 May 2024  
**Lab Number** : **06180204**      **Tested** : 18 May 2024  
**Unique Number** : 11031530      **Diagnosed** : 18 May 2024 - Jonathan Hester  
**Test Package** : IND 2

**SMITHFIELD FOOD - TARHEEL**  
 15855 HWY. 87 WEST  
 TARHEEL, NC  
 US 28392  
 Contact: SERVICE MANAGER

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)

T:  
F: