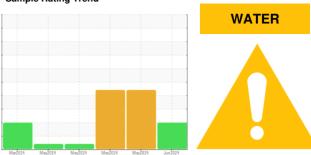


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **BONE CANNON 2**

Hydraulic System

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

High concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

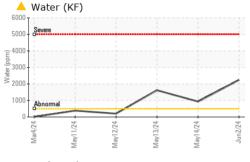
### **Fluid Condition**

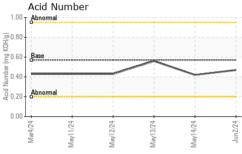
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

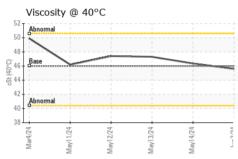
		Mar2024	May2024 May2024	May2024 May2024	Jun2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36403	USP0011883	USP0011868
Sample Date		Client Info		02 Jun 2024	14 May 2024	13 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	1
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	0	2	2
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>20	7	7	7
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	0	1	<1
Calcium	ppm	ASTM D5185m	200	35	38	28
Phosphorus	ppm	ASTM D5185m	300	342	361	379
Zinc	ppm	ASTM D5185m	370	382	416	371
Sulfur	ppm	ASTM D5185m	2500	912	900	956
CONTAMINANTS	<b>,</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		6	9	6
Potassium	ppm	ASTM D5185m	>20	0	2	1
Water	%	ASTM D6304	>0.05	<b>△</b> 0.224	▲ 0.093	▲ 0.162
ppm Water	ppm	ASTM D6304	>500	<u>2240</u>	<b>930</b>	<u>▲</u> 1620
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		<u>▲</u> 25229	<b>▲</b> 37653
Particles >6µm		ASTM D7647	>1300		▲ 3565	1840
Particles >14µm		ASTM D7647	>160		18	58
Particles >21µm		ASTM D7647	>40		3	14
Particles >38µm		ASTM D7647	>10		0	0
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		<u>^</u> 22/19/11	<u>^</u> 22/18/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.47	0.42	0.56



## **OIL ANALYSIS REPORT**







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	▲ HEAVY	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	▲ 2.0	▲ 2.0
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2

I LOID I HOI LI	IIILO	method	IIIIIII Dasc	Current	Thistory I	Thistory Z
Visc @ 40°C	cSt	ASTM D445	46	45.6	46.35	47.3

SAMPLE IMAGES	method	limit/base	

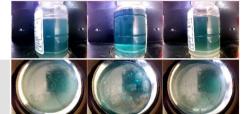
current

history1

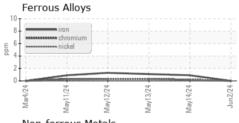
historv2

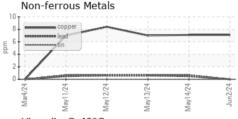
Color

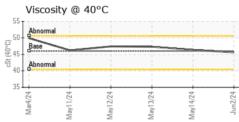
**Bottom** 

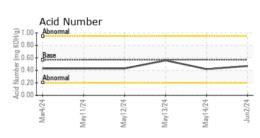


#### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: USPM36403 Lab Number : 06197697 Unique Number : 11059820 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** : 05 Jun 2024

Diagnosed : 05 Jun 2024 - Doug Bogart

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)

Contact: SERVICE MANAGER

**SMITHFIELD FOOD - TARHEEL** 

15855 HWY. 87 WEST

TARHEEL, NC

US 28392

T:

F:

Report Id: SMITAR [WUSCAR] 06197697 (Generated: 06/07/2024 04:15:16) Rev: 1

Contact/Location: SERVICE MANAGER - SMITAR