

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id

BONE CANNON 3

Component Hydraulic System Fluid {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

🔺 Wear

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

Contamination

Free water present. There is a light concentration of water present 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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011886	USP0011890	USP0007455
Sample Date		Client Info		12 May 2024	11 May 2024	04 Mar 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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	1	0
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
Lead	ppm	ASTM D5185m	>20	2	2	<1
Copper	ppm	ASTM D5185m		<u> </u>	<u>▲</u> 27	20
Tin	ppm	ASTM D5185m	>20	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	1	2
Calcium	ppm	ASTM D5185m		23	24	24
Phosphorus	ppm	ASTM D5185m		205	215	186
Zinc	ppm	ASTM D5185m		168	176	168
Sulfur	ppm	ASTM D5185m		3261	3376	2705
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	1	0
Sodium	ppm	ASTM D5185m		8	9	14
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.05	A 0.127	0.008	0.002
ppm Water	ppm	ASTM D6304	>500	1270	88	18
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1856		4504
Particles >6µm		ASTM D7647	>1300	168		491
Particles >14µm		ASTM D7647	>160	9		22
Particles >21µm		ASTM D7647	>40	2		4
Particles >38µm		ASTM D7647	>10	0		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/10		19/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.16	0.17	0.18

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method

ASTM D445

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.05

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

current

0.2%

1.0

42.1

history1

NONE

NONE

NONE

NONE

MODER

NONE

NORML

NORML

history

history1

NEG

NEG

42.6

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

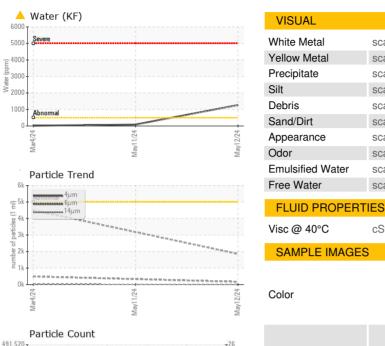
history

history2

NEG

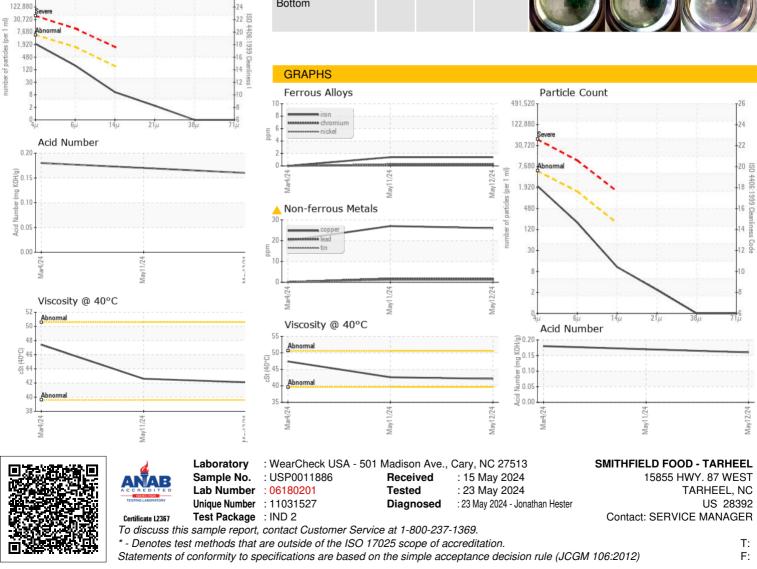
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47.4





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