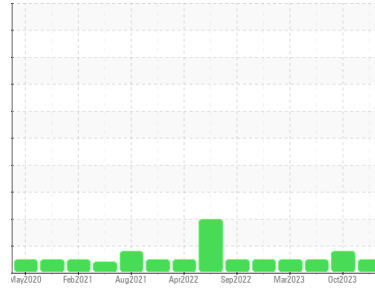




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

[211589]

Machine Id

AMERICAN BALER 4029NN10T30 ACME BOX (S/N 9893317)

Component

Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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	WC0858569	WC0836607	WC0810201
Sample Date	Client Info	30 Dec 2023	22 Oct 2023	02 Jul 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Filtered	Changed	Filtered
Sample Status		NORMAL	ABNORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	0	<1	1
Chromium	ppm ASTM D5185m >10	0	0	0
Nickel	ppm ASTM D5185m >10	0	0	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	0	0	0
Lead	ppm ASTM D5185m >10	0	0	<1
Copper	ppm ASTM D5185m >75	7	7	7
Tin	ppm ASTM D5185m >10	0	0	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	<1	0

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	0	<1
Manganese	ppm ASTM D5185m	0	0	0
Magnesium	ppm ASTM D5185m 25	0	2	0
Calcium	ppm ASTM D5185m 200	48	55	53
Phosphorus	ppm ASTM D5185m 300	306	317	320
Zinc	ppm ASTM D5185m 370	357	415	401
Sulfur	ppm ASTM D5185m 2500	2212	2460	2660

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	0	<1	1
Sodium	ppm ASTM D5185m	3	1	0
Potassium	ppm ASTM D5185m >20	0	2	1

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	540	▲ 25482	2218
Particles >6µm	ASTM D7647 >1300	194	365	745
Particles >14µm	ASTM D7647 >160	27	13	120
Particles >21µm	ASTM D7647 >40	8	3	46
Particles >38µm	ASTM D7647 >10	1	0	5
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	16/15/12	▲ 22/16/11	18/17/14

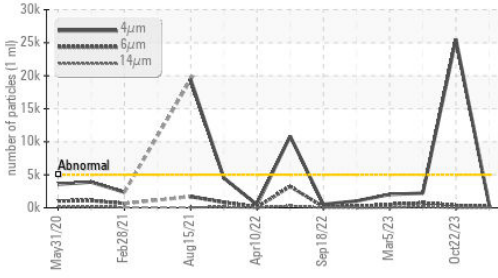
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.57	0.25	0.30	0.30

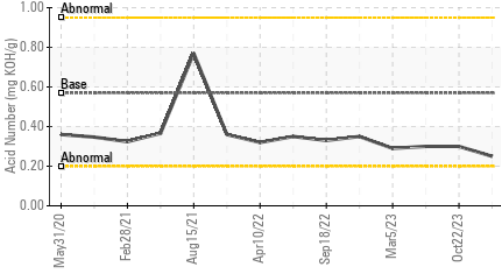


OIL ANALYSIS REPORT

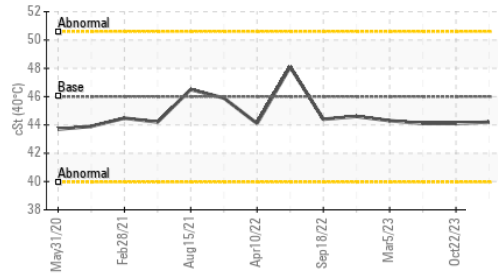
Particle Trend



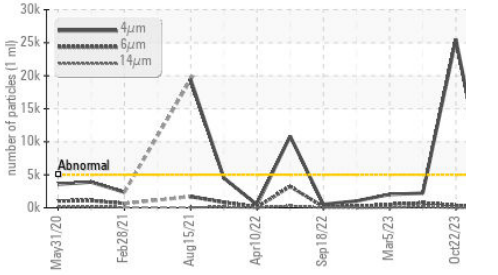
Acid Number



Viscosity @ 40°C



Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

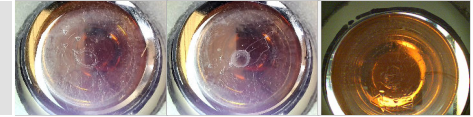
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.2	44.1	44.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

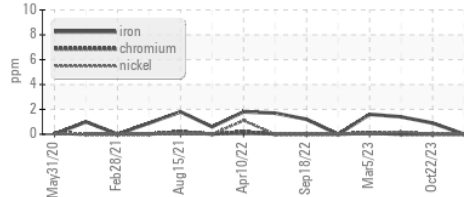


Bottom

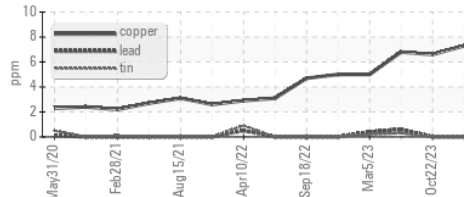


GRAPHS

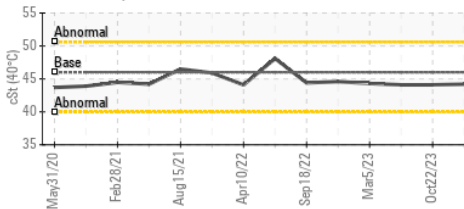
Ferrous Alloys



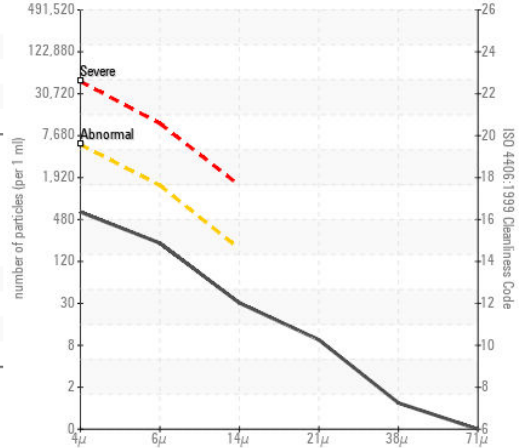
Non-ferrous Metals



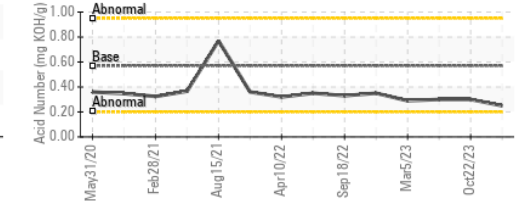
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0858569
 Lab Number : 06054756
 Unique Number : 10820705
 Test Package : IND 2

ADVANCED EQUIPMENT SALES
 535 HAGEY RD
 SOUDERTON, PA
 US 18964
 Contact: JEFF BURNLEY
 jburnley@aesales.net
 T: (215)723-7200
 F: (215)723-7201

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)