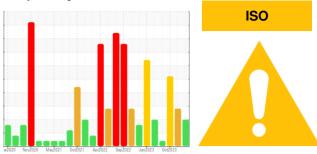


### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

## BAUER 4

#### Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 150 (20 GAL)

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

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

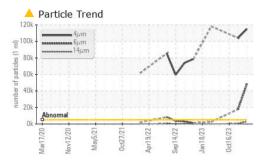
	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0904931	WC0873103	WC0845571
Sample Date		Client Info		11 Jun 2024	24 Jan 2024	16 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	12	<b>A</b> 35	<b>4</b> 7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	<1
Lead	ppm	ASTM D5185m	>20	- <1	0	<1
Copper	ppm	ASTM D5185m		6	2	5
Tin	ppm	ASTM D5185m	>20	ء <1	0	<1
Vanadium	ppm	ASTM D5185m	220	0	0	0
Cadmium	ppm	ASTM D5185m		۰ <1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<1	1	8
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	2	8	16
	ppin	AUTIV DUTUUII	5			
-	nnm	ASTM D5185m		-1	0	~1
Manganese	ppm	ASTM D5185m	25	<1 6	0	<1
Manganese Magnesium	ppm	ASTM D5185m	25	6	15	30
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	200	6 21	15 58	30 110
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	200 300	6 21 126	15 58 97	30 110 166
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370	6 21 126 36	15 58 97 50	30 110 166 78
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370 2500	6 21 126	15 58 97 50 4622	30 110 166
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370	6 21 126 36	15 58 97 50	30 110 166 78 4867 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370 2500	6 21 126 36 3628	15 58 97 50 4622	30 110 166 78 4867
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	200 300 370 2500 limit/base	6 21 126 36 3628 current	15 58 97 50 4622 history1	30 110 166 78 4867 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370 2500 limit/base	6 21 126 36 3628 current 4	15 58 97 50 4622 history1 3	30 110 166 78 4867 history2 7
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370 2500 limit/base >15	6 21 126 36 3628 <u>current</u> 4 <1	15 58 97 50 4622 history1 3 0	30 110 166 78 4867 history2 7 7 7
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370 2500 limit/base >15 >20	6 21 126 36 3628 <u>current</u> 4 <1 <1	15 58 97 50 4622 history1 3 0 <1	30 110 166 78 4867 history2 7 7 7 1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370 2500 limit/base >15 >20 limit/base	6 21 126 36 3628 current 4 <1 <1 <1	15 58 97 50 4622 history1 3 0 <1 history1	30 110 166 78 4867 history2 7 7 7 1 1 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	200 300 370 2500 limit/base >15 >20 limit/base >5000	6 21 126 36 3628 <u>current</u> 4 <1 <1 current 115030	15 58 97 50 4622 history1 3 0 <1 ×1 history1 ▲ 104053	30 110 166 78 4867 history2 7 7 7 1 1 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647	200 300 370 2500 >15 >20 imit/base >20 imit/base >20 >1300 >1300 >160	6 21 126 36 3628 <u>current</u> 4 <1 <1 <u>current</u> 115030 ▲ 115030	15 58 97 50 4622 history1 3 0 <1 × 104053 ▲ 104053	30 110 166 78 4867 history2 7 7 7 1 1 history2 
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 >15 >20 imit/base >20 imit/base >20 >1300 >1300 >160	6 21 126 36 3628 current 4 <1 <1 <1 current × 115030 ▲ 115030 × 48820 ▲ 2938	15 58 97 50 4622 history1 3 0 <1 104053 ▲ 104053 ▲ 17814 ▲ 577	30 110 166 78 4867 history2 7 7 7 1 history2 
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 >15 >15 >20 <u>limit/base</u> >5000 >1300 >160 >40 >10	6 21 126 36 3628 current 4 <1 <1 current × 115030 ▲ 115030 ▲ 2938 ▲ 326	15 58 97 50 4622 history1 3 0 <1 ×1 ×104053 ▲ 104053 ▲ 17814 ▲ 577 ▲ 129	30 110 166 78 4867 history2 7 7 7 1 history2  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 >15 >15 >20 <u>limit/base</u> >5000 >1300 >160 >40 >10	6 21 126 36 3628 current 4 <1 <1 <1 € 115030 ▲ 115030 ▲ 2938 ▲ 2938 ▲ 326 4	15 58 97 50 4622 history1 3 0 <1 ×1 0 ×1 ×1 ×104053 ▲ 17814 ▲ 577 ▲ 129 8	30 110 166 78 4867 history2 7 7 7 1 history2  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 >15 >20 >20 imit/base >20 imit/base >20 >1300 >1300 >160 >10 >10 >3	6 21 126 36 3628 current 4 <1 <1 <1 current 115030 ▲ 115030 ▲ 115030 ▲ 2938 ▲ 326 4 0	15 58 97 50 4622 history1 3 0 <1 ×1 0 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1	30 110 166 78 4867 history2 7 7 7 1 1 history2   
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >4µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 >15 >20 <b>imit/base</b> >20 <b>imit/base</b> >20 >10 >1300 >160 >40 >10 >3 >3 >19/17/14	6 21 126 36 3628 current 4 <1 <1 current ↓ 115030 ↓ 48820 ↓ 2938 ↓ 326 4 0 ↓ 24/23/19	15 58 97 50 4622 history1 3 0 <1 history1 ▲ 104053 ▲ 17814 ▲ 577 ▲ 129 8 0 0 ▲ 24/21/16	30 110 166 78 4867 history2 7 7 7 1 1 history2   

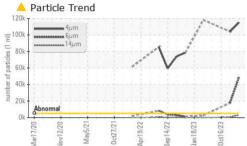
Report Id: BLUDAN [WUSCAR] 06211575 (Generated: 06/21/2024 23:28:17) Rev: 1

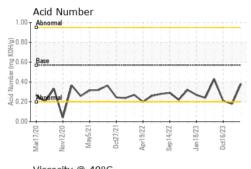
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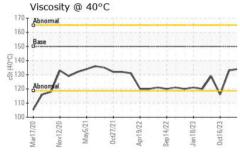


# **OIL ANALYSIS REPORT**

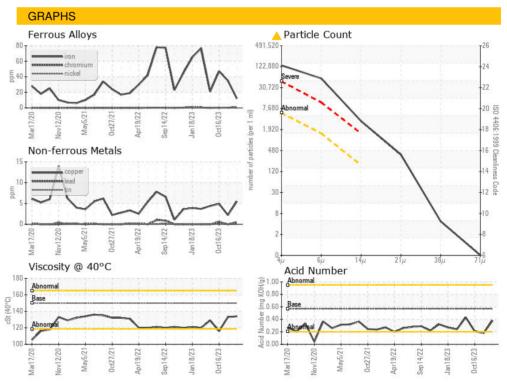








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	134	133	116
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						a. (10) .
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **BLUE RIDGE FIBERBOARD** Sample No. : WC0904931 Received : 17 Jun 2024 250 KNIGHT CELOTEX DR Lab Number : 06211575 Tested : 18 Jun 2024 DANVILLE, VA Unique Number : 11084439 Diagnosed : 18 Jun 2024 - Don Baldridge US 24541 Test Package : IND 2 Contact: Jerald Caldwell Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. JCaldwell@blueridgefiberboard.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: BLUDAN [WUSCAR] 06211575 (Generated: 06/21/2024 23:28:17) Rev: 1

Contact/Location: Jerald Caldwell - BLUDAN Page 2 of 2