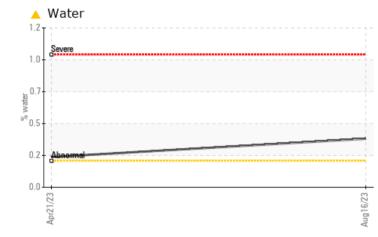


### BELOIT PULPER 2 Component

Gearbox Fluid GEAR OIL ISO 220 (50 GAL)

# Sample Rating Trend WATER

COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	SEVERE			
Water	%	ASTM D6304	>0.2	<b>A</b> 0.366	▲ 0.228			
ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 3660	<u> </u>			
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML			

Customer Id: CERRUS Sample No.: WC0752421 Lab Number: 05929772 Test Package: PLANT



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 21 Apr 2023 Diag: Jonathan Hester



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.All component wear rates are normal. Excessive free water present. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

Sample Rating Trend

WATER

Machine Id BELOIT PULPER 2 Component

Gearbox Fluid GEAR OIL ISO 220 (50 GAL)

#### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Appearance is unacceptable There is a light concentration of water present in the oil.

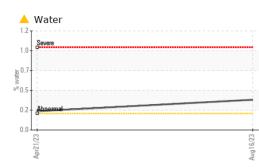
#### Fluid Condition

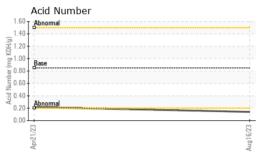
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

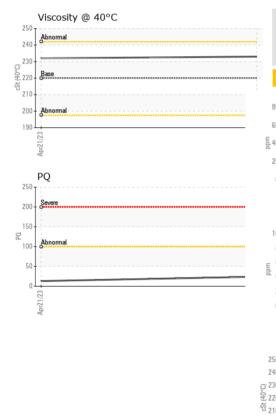
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752421	WC0752407	
Sample Date		Client Info		16 Aug 2023	21 Apr 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				ABNORMAL	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		24	13	
Iron	ppm	ASTM D5185m	>200	76	64	
Chromium	ppm	ASTM D5185m	>15	0	0	
Nickel	ppm	ASTM D5185m	>15	3	3	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	0	
Lead	ppm	ASTM D5185m	>100	<1	0	
Copper	ppm	ASTM D5185m	>200	2	2	
Tin	ppm	ASTM D5185m	>25	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2
	ppm ppm					
Boron		ASTM D5185m	50	0	0	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	50 15	0 0	0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 15	0 0 0	0 0 0	
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15	0 0 0 <1	0 0 0 <1	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50	0 0 0 <1 <1	0 0 <1 2	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50 50	0 0 <1 <1 2	0 0 <1 2 6	  
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50 50 350	0 0 <1 <1 2 72	0 0 <1 2 6 93	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50 50 350 100	0 0 <1 <1 2 72 23	0 0 <1 2 6 93 35	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50 50 350 100 12500	0 0 <1 <1 2 72 23 5933	0 0 2 4 2 6 93 35 5645	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	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	50 15 15 50 50 350 100 12500 Iimit/base	0 0 2 3 3 4 1 2 72 23 5933 5933 current	0 0 2 6 93 35 5645 history1	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	50 15 15 50 50 350 100 12500 Iimit/base	0 0 2 3 4 1 2 72 23 5933 5933 current 0	0 0 2 4 6 93 35 5645 history1 4	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	50 15 15 50 50 350 100 12500 limit/base >50	0 0 0 <1 <1 2 72 23 5933 current 0 4	0 0 0 <1 2 6 93 35 5645 history1 4 10	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 15 15 50 350 350 100 12500 <b>limit/base</b> >50	0 0 2 3 4 7 2 7 2 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 9 3 3 5 5 9 3 3 5 5 9 5 1 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5	0 0 2 4 2 6 93 35 5645 <b>history1</b> 4 10 <1	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 15 15 50 350 100 12500 limit/base >50 >20 >0.2	0 0 2 3 4 72 23 5933 0 0 4 4 <1 ▲ 0.366	0 0 0 <1 2 6 93 35 5645 history1 4 10 <1 ▲ 0.228	     history2



# **OIL ANALYSIS REPORT**







history2	history1	his	current	/base	limit/b	method		VISUAL	-			
-	NONE -	NON	NONE	E	NONE	*Visual	scalar	White Metal	V			
-	NONE -	NON	NONE	E	NONE	*Visual	scalar	ellow Metal	Y			
-	NONE -	NON	NONE	E	NONE	*Visual	scalar	Precipitate	Р			
-	NONE -	NON	NONE	E	NONE	*Visual	scalar	Silt	S			
-	.IGHT	LIGH	NONE		NONE	*Visual	scalar	Debris	D			
-			NONE		NONE	*Visual	scalar	Sand/Dirt				
-			HAZY		NORM	*Visual	scalar	Appearance	A	Aug 16/23		
-			NORML	ML	NORN	*Visual	scalar	Ddor	_	Aug		
-		0.2%	0.2%		>0.2	*Visual	scalar	Emulsified Water				
-	0.0	10.0	NEG			*Visual	scalar	ree Water	F			
history2	history1	his	current	/base	limit/k	method	TIES	FLUID PROPER				
-	.32	232	233		220	ASTM D445	cSt	/isc @ 40°C	V			
history2	history1	his	current	/base	limit/k	method	ES	SAMPLE IMAGE				
o image								Color	C	Aug 16/23 +		
o image								Bottom	В			
								GRAPHS				,
			PQ	220 <del>-</del>				Ferrous Alloys	80 -			
			Severe					iron				
			- <b>Q</b>	200 -				nickel	60- E			
				180-				•	튭 40 -			
			1	160-					20-			
				140-	23			 S2	0			
				120	Aug16/23			Apr21/23				
			Abnormal	립 100-	A		alc	Non-ferrous Meta				
				80 -				T T	<sup>10</sup> T			
			i i J	60-				copper	8-			
								tin	ud d			
				40 -				-	<sup>□</sup> 4•			
				20-					2-			
			52	0	/23			/23	01			
C C/ J L			Apr21/23		Aug16/23			Apr21/23				
<		or	Acid Numbe				2	Viscosity @ 40°C				
					1			Abnormal	250			
			Abnormal	2.00 1.50 400 1.50 1.00 1.00 1.00 1.00 1.00 1.00 1.					240			
			Base	ຍັ ພາສາ 1.00 -				Base	(; 230 0€ 220			
			<b>Q</b>	quny N 0 50					<sup>경</sup> 210			
			Abnormal	Acid				Abnormal	200			
60.0			1/23	0.00-	6/23 +			1/23				
CC/31,200			Apr2		Aug1			Apr2				
TE ROAI VILLE, A US 3565 DY SMITH	RTAINTEED G 75 WALNUT G. RUSSEL Contact: RAN y.smith@saint-g	475 V C		23 23 Hester	Aug 202 Aug 202 hathan H 9.	d : 21 ed : 23 tician : Jor 800-237-136	Received Diagnos Diagnos	WearCheck USA - WC0752421 05929772 10615043 PLANT tact Customer Ser	:V :C r:1 e:F , <i>cont</i>			0
US DY	75 WALNUT G RUSSEL Contact: RAN	475 V C randy.sr	Apr21/23	27513 23 23 Hester	Aug 202 Aug 202 hathan H 9. ditation.	d : 21 ed : 23 tician : Jor 200-237-136 ope of accred	Received Diagnos Diagnos vice at 1-8 17025 sco	WearCheck USA - WC0752421 05929772 10615043 PLANT	: V : V : C r : 1 e : F , cont are o	Sample No. Lab Number Unique Number Test Package sample report, t methods that	liscuss this Denotes tes	То ( * - Ц