

## **PROBLEM SUMMARY**

## Sample Rating Trend

ISO

ISO

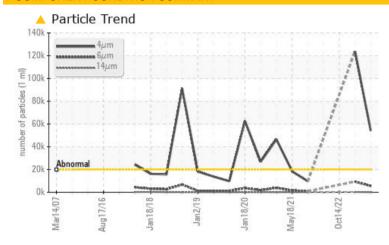
# No. 1 Paper Machine

1 PM 1ST Press Bottom Roll Drive Str.#5 (S/N MO27565-5)

Component Gear Unit

**ROYAL PURPLE SYNERGY 90/220 (19 GAL)** 

## **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	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647	>20000	<u> </u>	<u>123799</u>			
Particles >6µm	ASTM D7647	>5000	<u> </u>	<u>\$\infty\$ 9345</u>			
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>23/20/13</b>	<b>24/20/15</b>			

Customer Id: INTTEX Sample No.: RP0038223 Lab Number: 05968340 Test Package: IND 2



To manage this report scan the QR code

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

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 27 Dec 2022 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### WATER



## 14 Oct 2022 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, and use off-line filtration to improve the cleanliness of the system fluid. 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. All component wear rates are normal. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### WATER



### 11 Mar 2022 Diag: Doug Bogart

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Else, we recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count. All component wear rates are normal. Appearance is milky. There is a moderate concentration of water present in the oil. Light concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.





## **OIL ANALYSIS REPORT**

## Sample Rating Trend

# No. 1 Paper Machine

## 1 PM 1ST Press Bottom Roll Drive Str.

Component **Gear Unit** 

**ROYAL PURPLE SYNERGY 90/220 (19 GAI** 

## **DIAGNOSIS**

### Recommendation

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

All component wear rates are normal.

## Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### **Fluid Condition**

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

.#5 (S/N MO27565-5) L)							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number Sample Date Machine Age Oil Age Oil Changed	hrs hrs	Client Info Client Info Client Info Client Info Client Info		RP0038223 29 Sep 2023 0 0 N/A	RP0031046 27 Dec 2022 0 0 N/A	RP0031076 14 Oct 2022 0 0 N/A	
Sample Status  WEAR METALS		method	limit/base	ABNORMAL current	ABNORMAL history1	ABNORMAL history2	
Iron Chromium Nickel	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>150 >10 >10	86 <1 <1	50 <1 0	37 <1 0	
Titanium	ppm	ASTM D5185m		0	0	0	

Iron	ppm	ASTM D5185m	>150	86	50	37
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>100	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	3	6
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		55	67	82
Phosphorus	ppm	ASTM D5185m	370	875	842	850
Zinc	ppm	ASTM D5185m		999	977	1110

CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	4	4
Sodium	ppm	ASTM D5185m		2	3	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.1	0.061	0.037	<b>△</b> 0.415
ppm Water	ppm	ASTM D6304	>1000	611.7	372.7	<b>▲</b> 4150
	UECC	mathad	limit/haaa	ourront.	biotomid	biotom/0

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>54174</b>	<u> </u>	
Particles >6µm	ASTM D7647	>5000	<u></u> 5517	<u>\$\times\$ 9345</u>	
Particles >14µm	ASTM D7647	>640	58	273	
Particles >21µm	ASTM D7647	>160	5	25	
Particles >38µm	ASTM D7647	>40	0	0	
Particles >71µm	ASTM D7647	>10	0	0	
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u>23/20/13</u>	<b>2</b> 4/20/15	
FLUID DEGRADATION	method	limit/base	current	history1	history2

Acid Number (AN) mg KOH/g ASTM D8045 1.33 1.28 1.195 1.39



## **OIL ANALYSIS REPORT**

