

# **PROBLEM SUMMARY**

# Sample Rating Trend

WEAR

WEAR

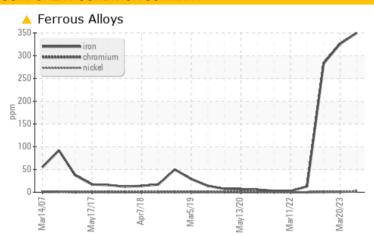
No. 1 Paper Machine

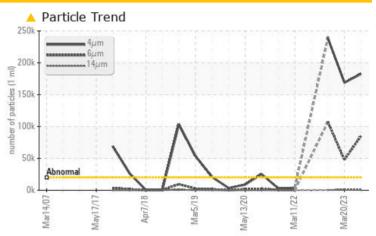
1 PM Lump Breaker Dr. Str. #3 (S/N MO-27565-4)

Component Gear Unit

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

# **COMPONENT CONDITION SUMMARY**





# RECOMMENDATION

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL			
Iron	ppm	ASTM D5185m	>150	<u></u> 4 350 ∆	<b>▲</b> 326	<u>▲</u> 283			
Particles >4µm		ASTM D7647	>20000	<u> </u>	<u> </u>	<u>238741</u>			
Particles >6µm		ASTM D7647	>5000	<b>A</b> 84980	<b>▲</b> 47821	<u>▲</u> 107086			
Particles >14µm		ASTM D7647	>640	<b>657</b>	<b>△</b> 689	530			
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> 25/24/17</u>	<u>\$\lambda\$\$ 25/23/17</u>	<u>\$\Delta\$ 25/24/16</u>			

Customer Id: INTTEX Sample No.: RP0038231 Lab Number: 05968338 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**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.
Resample			?	We recommend an early resample to monitor this condition.

# HISTORICAL DIAGNOSIS

## 20 Mar 2023 Diag: Don Baldridge

#### WEAR



We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



# 27 Dec 2022 Diag: Doug Bogart

#### WEAR



We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. Gear wear is indicated. 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 acceptable for the time in service.

# view report

# 14 Oct 2022 Diag: Jonathan Hester

#### WATER



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. Free water present. There is a light 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.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend

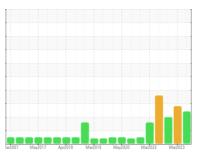
# **WEAR**

# No. 1 Paper Machine

# 1 PM Lump Breaker Dr. Str. #3 (S/N MO-27565-4)

Component **Gear Unit** 

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





# **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

Gear wear is indicated.

# 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 acceptable for the time in service.

1w2007 May2017 Apr2018 Mar2019 May2020 Mar2022 Mar2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		RP0038231	RP0031730	RP0031066	
Sample Date		Client Info		29 Sep 2023	20 Mar 2023	27 Dec 2022	
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	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>150	<b>350</b>	▲ 326	<b>△</b> 283	
Chromium	ppm	ASTM D5185m	>10	2	1	1	
Nickel	ppm	ASTM D5185m	>10	1	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1	
Lead	ppm	ASTM D5185m	>100	0	0	0	
Copper	ppm	ASTM D5185m	>50	9	5	6	
Tin	ppm	ASTM D5185m	>10	0	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	0	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		<1	<1	<1	
Manganese	ppm	ASTM D5185m		5	5	4	
Magnesium	ppm	ASTM D5185m		2	6	<1	
Calcium	ppm	ASTM D5185m		8	3	5	
Phosphorus	ppm	ASTM D5185m	370	81	56	62	
Zinc	ppm	ASTM D5185m		7	4	5	
CONTAMINANTS	3	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	10	6	6	
Sodium	ppm	ASTM D5185m		14	13	11	
Potassium	ppm	ASTM D5185m	>20	2	<1	0	
Water	%	ASTM D6304		800.0	0.013	0.054	
ppm Water	ppm	ASTM D6304	>1000	81.7	130.6	540	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>20000	<u> </u>	<u>▲</u> 168848	<u>238741</u>	
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u>▲</u> 47821	<u>▲</u> 107086	
Particles >14µm		ASTM D7647	>640	<u>▲</u> 657	<b>△</b> 689	530	
Particles >21µm		ASTM D7647	>160	60	<u> </u>	112	
Particles >38µm		ASTM D7647	>40	1	6	1	
Particles >71µm		ASTM D7647	>10	1	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>\$\text{\sigma}\$ 25/24/17</u>	<u>△</u> 25/23/17	<u>△</u> 25/24/16	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.31	0.29	0.313	



# **OIL ANALYSIS REPORT**

