

# **PROBLEM SUMMARY**

### Sample Rating Trend

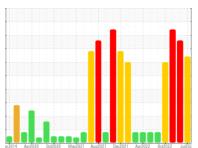
# **WEAR**

# Pulp Mill A-Line

5A ThickStockPumpInput West End (S/N Warren 125 HD)

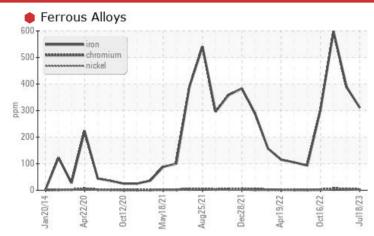
**Drive End Pump** 

**ROYAL PURPLE SYNERGY 90/220 (5 GAL)** 





#### COMPONENT CONDITION SUMMARY



#### **RECOMMENDATION**

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Iron	ppm	ASTM D5185m	>90	<b>311</b>	<b>389</b>	<b>598</b>			
Debris	scalar	*Visual	NONE	MODER	LIGHT	NONE			

**Customer Id: INTTEX** Sample No.: RP0031078 Lab Number: 05902862 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

# RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Resample			?	We recommend an early resample to monitor this condition.

#### HISTORICAL DIAGNOSIS

#### 27 Mar 2023 Diag: Don Baldridge

#### WEAR



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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Free water present. The AN level is acceptable for this fluid.



#### 27 Feb 2023 Diag: Doug Bogart

#### WEAR



We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. Appearance is milky. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.

# view report

#### 16 Oct 2022 Diag: Don Baldridge

#### WEAR



We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





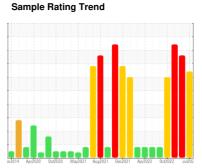
# **OIL ANALYSIS REPORT**

# Pulp Mill A-Line

# 5A ThickStockPumpInput West End (S/N Warren 125 HD)

**Drive End Pump** 

**ROYAL PURPLE SYNERGY 90/220 (5 GAL)** 





## DIAGNOSIS

#### Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

#### Wear

Gear wear is indicated.

#### Contamination

Moderate concentration of visible dirt/debris 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.

		in2014 Apr20	020 0ct2020 May2021	Aug2021 Dec2021 Apr2022 0	ct2022 Jul202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0031078	RP0031081	RP0031086
Sample Date		Client Info		18 Jul 2023	27 Mar 2023	27 Feb 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	<b>311</b>	<b>389</b>	<b>598</b>
Chromium	ppm	ASTM D5185m	>5	3	5	6
Nickel	ppm	ASTM D5185m	>5	<1	3	4
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>7	7	5	6
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	1	2	2
Tin	ppm	ASTM D5185m	>9	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	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	2	5
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		4	4	6
Magnesium	ppm	ASTM D5185m		0	6	7
Calcium	ppm	ASTM D5185m		20	46	47
Phosphorus	ppm	ASTM D5185m	370	460	289	329
Zinc	ppm	ASTM D5185m		0	9	10
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	9	6	7
Sodium	ppm	ASTM D5185m		1	<1	2
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304		0.012	0.070	<b>△</b> 0.371
ppm Water	ppm	ASTM D6304	>.1	127.6	700	<b>△</b> 3710
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.62	0.35	0.44
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	▲ MODER	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		*\ /! - · · - I		NEO	0.00/	A 0 00/

**NEG** 

**NEG** 

0.2%

**Emulsified Water** 

scalar \*Visual

scalar \*Visual

**△** 0.2%

DAVID COTHRENEONTTEX



## **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: RP0031078 : 05902862 : 10564218 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2023 Diagnosed : 21 Jul 2023

Diagnostician : Don Baldridge

**GRAPHIC PACKAGING INTERNATIONAL** 

9978 FM 3129 QUEEN CITY, TX US 75572

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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)