

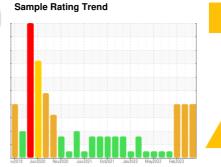
PROBLEM SUMMARY

Pulp Mill A-Line

3A ThickStockPump Drive End (S/N Warren 125 HD)

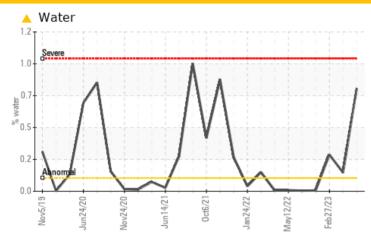
Drive End Pump

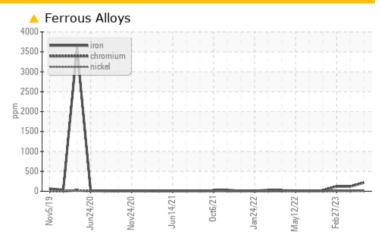
ROYAL PURPLE SYNERGY 90/220 (5 GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

PROBLEMATIC 1	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>90	<u>^</u> 213	<u>120</u>	<u>119</u>
Chromium	ppm	ASTM D5185m	>5	<u> </u>	1 0	<u> </u>
Nickel	ppm	ASTM D5185m	>5	<u>^</u> 6	<u>^</u> 7	<u>^</u> 7
Water	%	ASTM D6304		0.775	△ 0.140	△ 0.276
ppm Water	ppm	ASTM D6304	>.1	7756.3	<u></u> 1400	<u>▲</u> 2760

Customer Id: INTTEX Sample No.: RP0031744 Lab Number: 05902858 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
Resample			?	We recommend an early resample to monitor this condition.
Check Water Access			?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

27 Mar 2023 Diag: Don Baldridge

WATER



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. 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 acceptable for the time in service.

view report

27 Feb 2023 Diag: Don Baldridge

WATER



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. 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 acceptable for the time in service.

view report

16 Oct 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Pulp Mill A-Line 3A ThickStockPump Drive End (S/N Warren 125 HD)

Drive End Pump

ROYAL PURPLE SYNERGY 90/220 (5 GAL)





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is a moderate concentration of water 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.

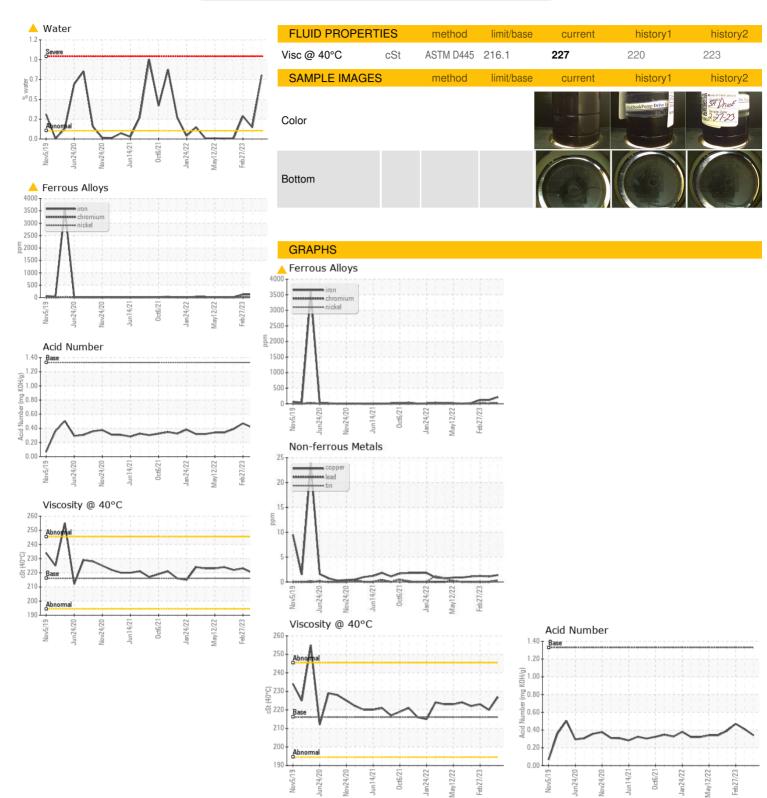
		3v2019 Jun2	120 Nov2020 Jun2021	Oct2021 Jan2022 May2022	Feb2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0031744	RP0031747	RP0031090
Sample Date		Client Info		18 Jul 2023	27 Mar 2023	27 Feb 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	<u> </u>	<u> </u>	<u> </u>
Chromium	ppm	ASTM D5185m	>5	<u> </u>	<u> </u>	<u> </u>
Nickel	ppm	ASTM D5185m	>5	<u>^</u> 6	<u>^</u> 7	<u> </u>
Γitanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>7	2	1	1
_ead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	1	1	1
Γin	ppm	ASTM D5185m	>9	<1	0	0
/anadium	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		3	<1	2
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		8	14	15
Calcium	ppm	ASTM D5185m		12	12	15
Phosphorus	ppm	ASTM D5185m	370	386	185	213
Zinc	ppm	ASTM D5185m		0	8	10
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	8	3	5
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	3	1	<1
Nater	%	ASTM D6304		<u> </u>	△ 0.140	▲ 0.276
opm Water	ppm	ASTM D6304	>.1	▲ 7756.3	▲ 1400	2760
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.34	0.41	0.47
VISUAL		method	limit/base		history1	history2
1100/12				current	HISTORY	
	scalar	*Visual	NONE	NONE	NONE	NONE
White Metal	scalar scalar					NONE NONE
White Metal Yellow Metal		*Visual	NONE	NONE	NONE	NONE
White Metal Yellow Metal Precipitate	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE NONE
White Metal Yellow Metal Precipitate Silt	scalar scalar	*Visual *Visual *Visual	NONE NONE	NONE NONE	NONE NONE NONE	NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE LIGHT	NONE NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE LIGHT NONE	NONE NONE NONE NONE NONE

n: DANG COTHRENEGNITEX

NEG



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: RP0031744 : 05902858 : 10564214 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

Contact: DAVID COTHREN david.cothren@graphicpkg.com

T: (903)796-1690 F: (903)796-1969

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)