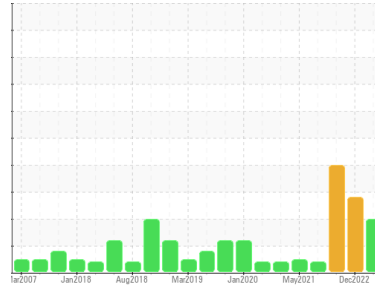


PROBLEM SUMMARY

Sample Rating Trend

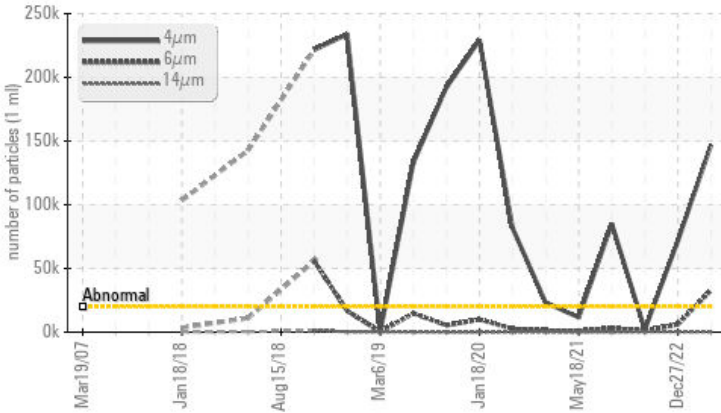
WEAR

Area
No. 1 Paper Machine
 Machine Id
1 PM 1ST COAT BACKING ROLL DRIVE STR#36 611-43-03 (S/N MO27565-26)
 Component
Gear Unit
 Fluid
ROYAL PURPLE SYNERGY 90/220 (7 GAL)

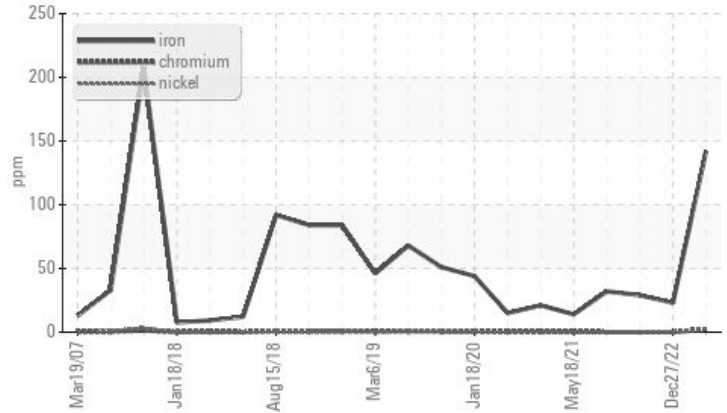


COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Ferrous Alloys



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	SEVERE
Iron	ppm	ASTM D5185m >150	▲ 142	23	29
Particles >4µm		ASTM D7647 >20000	▲ 146954	▲ 71860	1899
Particles >6µm		ASTM D7647 >5000	▲ 32886	▲ 6239	1034
Oil Cleanliness		ISO 4406 (c) >21/19/16	▲ 24/22/15	▲ 23/20/15	18/17/15

Customer Id: INTTEX
 Sample No.: RP0038224
 Lab Number: 05968329
 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

27 Dec 2022 Diag: Doug Bogart

WATER



We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. 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.

[view report](#)



14 Oct 2022 Diag: Jonathan Hester

WATER



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 recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is hazy. There is a high concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid.

[view report](#)



11 Mar 2022 Diag: Wes Davis

ISO



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4µm are abnormally high. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

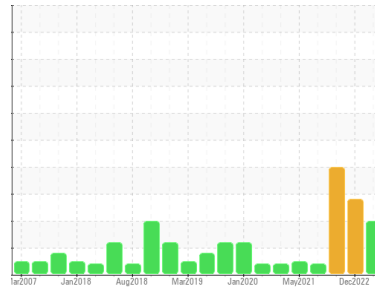
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
No. 1 Paper Machine
 Machine Id
1 PM 1ST COAT BACKING ROLL DRIVE STR#36 611-43-03 (S/N MO27565-26)
 Component
Gear Unit
 Fluid
ROYAL PURPLE SYNERGY 90/220 (7 GAL)

DIAGNOSIS

Recommendation

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

Wear

Gear wear is indicated.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			RP0038224	RP0031045	RP0031047
Sample Date	Client Info			29 Sep 2023	27 Dec 2022	14 Oct 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	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	▲ 142	23	29
Chromium	ppm	ASTM D5185m	>10	2	0	0
Nickel	ppm	ASTM D5185m	>10	3	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>100	1	0	0
Copper	ppm	ASTM D5185m	>50	6	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

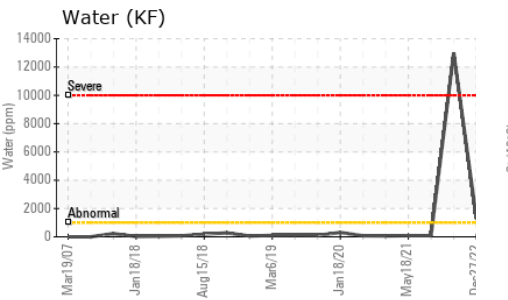
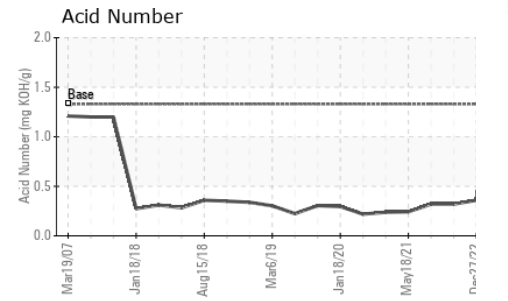
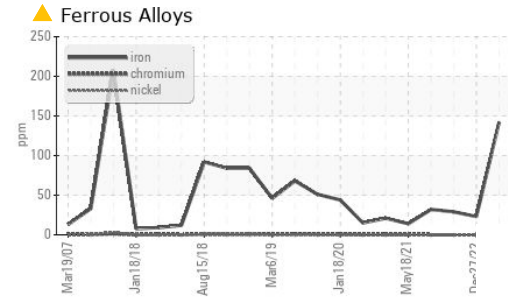
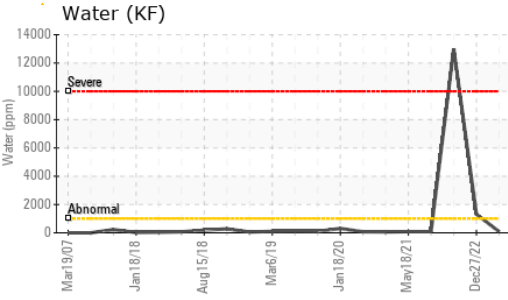
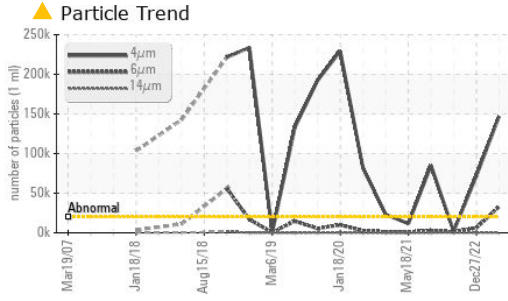
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		211	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		4	4	4
Calcium	ppm	ASTM D5185m		114	27	29
Phosphorus	ppm	ASTM D5185m	370	862	114	103
Zinc	ppm	ASTM D5185m		1091	13	18

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	4	5
Sodium	ppm	ASTM D5185m		<1	1	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.1	0.008	▲ 0.131	● 1.30
ppm Water	ppm	ASTM D6304	>1000	85.7	▲ 1310	● 13000

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 146954	▲ 71860	1899
Particles >6µm		ASTM D7647	>5000	▲ 32886	▲ 6239	1034
Particles >14µm		ASTM D7647	>640	251	192	176
Particles >21µm		ASTM D7647	>160	23	35	59
Particles >38µm		ASTM D7647	>40	1	2	9
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/22/15	▲ 23/20/15	18/17/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	1.68	0.360	0.32

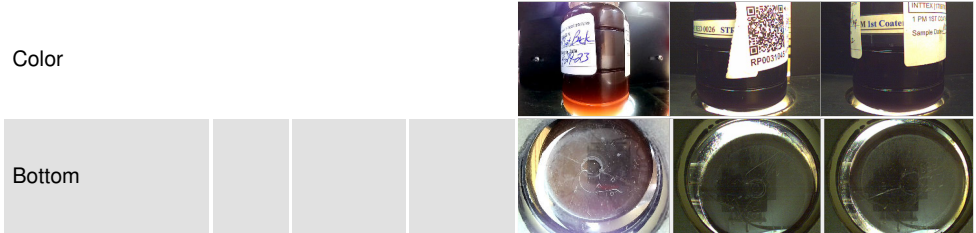
OIL ANALYSIS REPORT



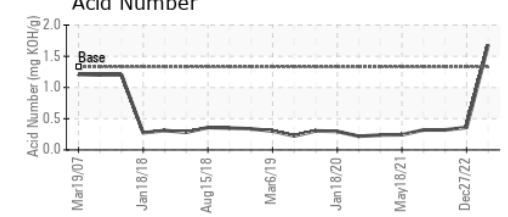
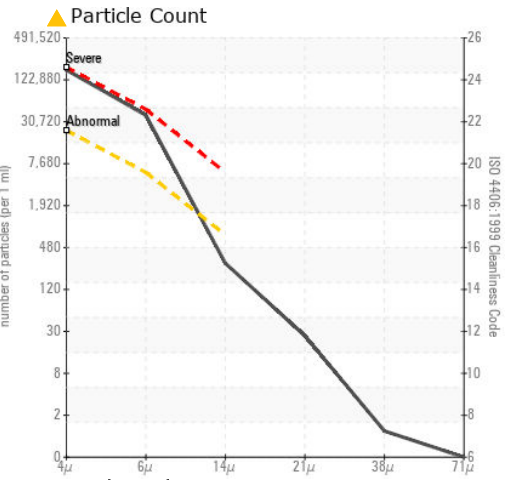
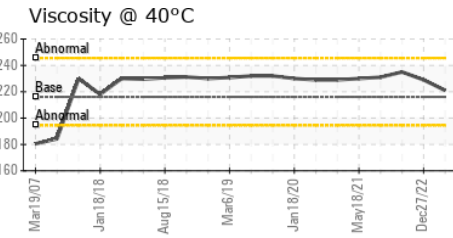
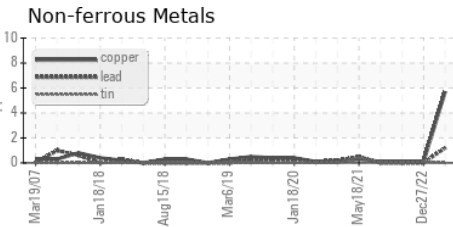
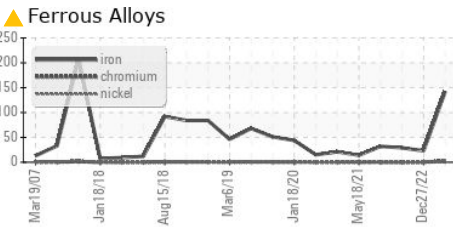
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	216.1	221	229

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038224 **Received** : 03 Oct 2023
Lab Number : 05968329 **Diagnosed** : 05 Oct 2023
Unique Number : 10674880 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

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 david.cothren@graphicpkg.com
 T: (903)796-1690
 F: (903)796-1969

Certificate L2367
 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)