

OIL ANALYSIS REPORT

Area Paper Side Machine Id PAPER MACHINE 2 MAIN BOWSER Component

Bearing Lube

SHELL PM S2 M 220 (3500 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

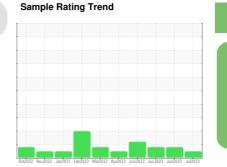
All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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



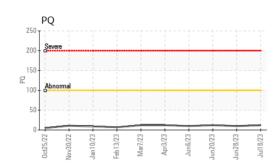


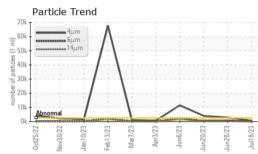
NORMAL

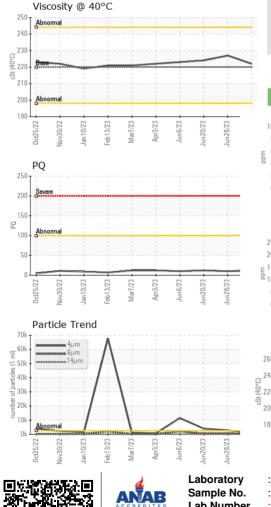
Sample NumberClient InfoPE0000991PE0000986PE00014Sample DateClient Info18 Jul 202328 Jun 202320 Jun 20Machine AgehrsClient Info000Oil AgehrsClient Info000Oil ChangedClient InfoN/AN/AN/ASample StatusImageImageNORMALATTENTION	2023
Sample Date Client Info 18 Jul 2023 28 Jun 2023 20 Jun 23 Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Client Info N/A NORMAL ATTENTION ATTENT WEAR METALS method limit/base current history1 history1 PQ ASTM D8184 12 10 12 Iron ppm ASTM D5185m<>120 <1 0 <1 Chromium ppm ASTM D5185m<>20 0 0 0 Nickel ppm ASTM D5185m<>20 0 0 0 0 Silver ppm ASTM D5185m<>10 0 0 0 0 0 Lead ppm ASTM D5185m<>17 7 8 7 1 1	2023 FION
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WEAR METALS method limit/base current history1 histor PQ ASTM D8184 12 10 12 Iron ppm ASTM D5185m >120 <1 0 <1 Chromium ppm ASTM D5185m >5 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 11 Titanium ppm ASTM D5185m >20 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >4 0 0 0 Lead ppm ASTM D5185m >17 7 8 7 Tin ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m <1 0 <1 0 ADD	-
PQ ASTM D8184 12 10 12 Iron ppm ASTM D5185m >120 <1	ory2
Iron ppm ASTM D5185m >120 <1	
Chromium ppm ASTM D5185m >5 0 0 <1	
Nickel ppm ASTM D5185m >20 0 0 1 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >4 0 0 0 Lead ppm ASTM D5185m >30 <1 <1 <1 Copper ppm ASTM D5185m >17 7 8 7 Tin ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m >10 0 <1 0 Cadmium ppm ASTM D5185m <10 0 <1 0 <1	
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Aluminum ppm ASTM D5185m >4 0 0 0 Lead ppm ASTM D5185m >30 <1	
Lead ppm ASTM D5185m >30 <1	
Copper ppm ASTM D5185m >17 7 8 7 Tin ppm ASTM D5185m >10 0 <1	
Tin ppm ASTM D5185m >10 0 <1	
VanadiumppmASTM D5185m0<1	
Cadmium ppm ASTM D5185m <1	
CadmiumppmASTM D5185m<1	
Boron DDm ASTM D5185m 0 0	ory2
Barium ppm ASTM D5185m 2 0 0	
Molybdenum ppm ASTM D5185m <1	
Manganese ppm ASTM D5185m 0 <1	
Magnesium ppm ASTM D5185m 4 2 2	
Calcium ppm ASTM D5185m 111 93 97	
Phosphorus ppm ASTM D5185m 904 776 860	
Zinc ppm ASTM D5185m 1218 1063 1239	
Sulfur ppm ASTM D5185m 6914 6825 8270	
CONTAMINANTS method limit/base current history1 histo	ory2
Silicon ppm ASTM D5185m >25 3 2 3	
Sodium ppm ASTM D5185m <1 6 6	
Potassium ppm ASTM D5185m >20 1 <1	
FLUID CLEANLINESS method limit/base current history1 histo	ory2
Particles >4μm ASTM D7647 >2500 568 Δ 2867 Δ 4014	
Particles >6μm ASTM D7647 >640 138 543 458	
Particles >14µm ASTM D7647 >160 10 48 27	
Particles >21μm ASTM D7647 >40 2 12 5	
Particles >38μm ASTM D7647 >10 0 1 0	
Particles >71μm ASTM D7647 >3 0 0 0	
Oil Cleanliness ISO 4406 (c) >18/16/14 16/14/10 ▲ 19/16/13 ▲ 19/16	6/12
FLUID DEGRADATION method limit/base current history1 histo	ory2
Acid Number (AN) mg KOH/g ASTM D8045 0.86 0.77 0.80	



OIL ANALYSIS REPORT

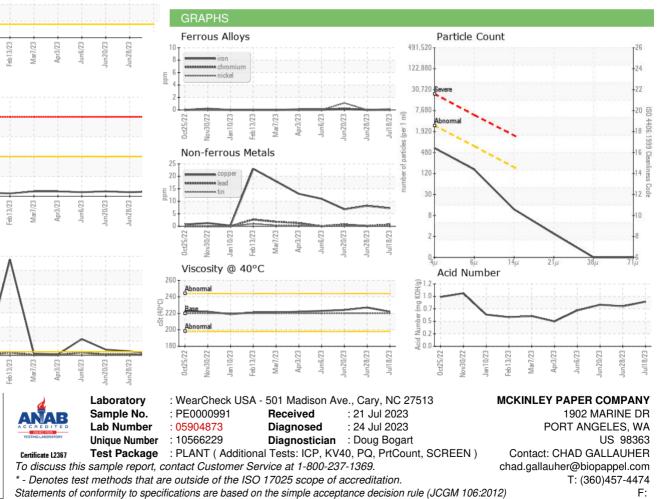






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	222	227	224
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				PEDODOSIT		

Bottom



Submitted By: CHAD GALLAUHER

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