

No. 1 Paper Machine 1 PM 3RD DRY DRIVE STR#15 611-27-01A (S/N M027565-15) Componen

Gear Unit

ROYAL PURPLE SYNERGY 90/220 (22 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		RP0039746		RP0039740
	Sample Date	1	Client Info		16 May 2024	22 Mar 2024	29 Dec 2023
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A N/A	N/A	N/A
	Filter Changed Sample Status		Client Info		N/A NORMAL	N/A	
	Sample Status					NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>150	1	0	0
	Chromium	ppm	ASTM D5185m	>10	0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	0	0	0
	Lead	ppm	ASTM D5185m	>100	0	0	0
	Copper	ppm	ASTM D5185m	>50	4	3	5
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>50</u>	4	3	4
	Potassium	ppm	ASTM D5185m		2	<1	0
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.	Water	%	ASTM D6304	>0.1	0.007	0.007	0.008
	ppm Water	ppm	ASTM D6304		73	73	81
	Particles >4µm	ppiii	ASTM D7647		1278	4720	38629
	Particles >6µm		ASTM D7647		125	754	2927
	Particles >14µm		ASTM D7647		13	40	49
	Particles >21µm		ASTM D7647		4	13	11
	Particles >38µm		ASTM D7647		0	1	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		17/14/11	19/17/12	22/19/13
	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	0
	Boron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		0	0	0
	Calcium	ppm	ASTM D5185m		0	0	0
	Phosphorus	ppm	ASTM D5185m	370	34	21	12
	Zinc	ppm	ASTM D5185m	0.0	7	0	0
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Visc @ 40°C

Acid Number (AN) mg KOH/g ASTM D8045 1.33

ASTM D445 216.1

0.59

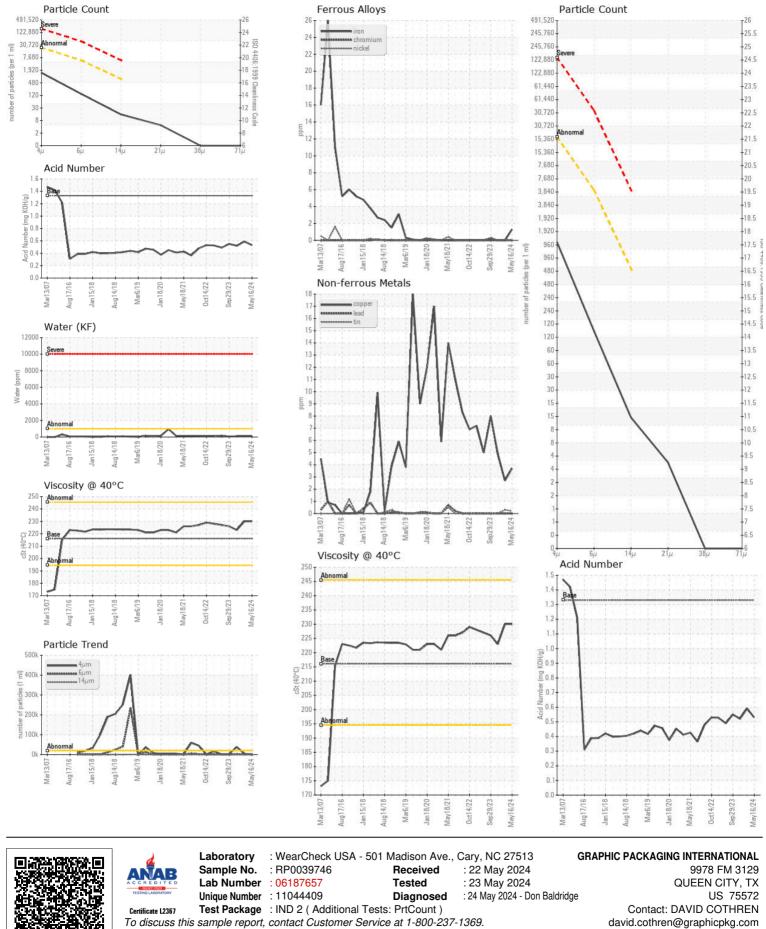
230

0.52

223

0.53

230



* - 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)

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