

OIL ANALYSIS REPORT

Area **Paper Cup Machines** PMC 1003 POS-223 (S/N 1180441-2550-1)

Circulating System

Flui SUMMIT Syngear SH-1032 320 (85 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

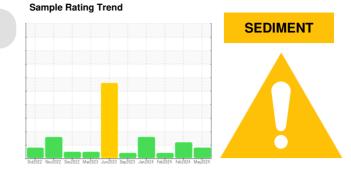
All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample.

Fluid Condition

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



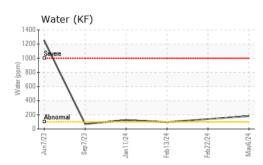
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50002247	TO50002213	TO50001911
Sample Date		Client Info		06 May 2024	22 Feb 2024	13 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Filtered	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		41	16	22
Iron	ppm	ASTM D5185m		14	14	11
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel	ppm	ASTM D5185m		5	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		2	<1	<1
Lead	ppm	ASTM D5185m		0	<1	1
Copper	ppm	ASTM D5185m		2	2	2
Tin	ppm	ASTM D5185m		<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		62	16	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	1	2
Calcium	ppm	ASTM D5185m		5	4	4
Phosphorus	ppm	ASTM D5185m		485	435	449
Zinc	ppm	ASTM D5185m		5	1	3
Sulfur	ppm	ASTM D5185m		6637	5370	5276
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		3993	5626	5516
Sodium	ppm	ASTM D5185m		0	2	1
Potassium	ppm	ASTM D5185m		2	1	3
Water	%	ASTM D6304		0.018	0.013	0.009
ppm Water	ppm	ASTM D6304		182	140	97
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300		▲ 31141	
Particles >6µm		ASTM D7647	>320		▲ 2910	
Particles >14µm		ASTM D7647	>80		54	
Particles >21µm		ASTM D7647			10	
Particles >38µm		ASTM D7647	>4		0	
Particles >71µm		ASTM D7647			0	
Oil Cleanliness		ISO 4406 (c)	>17/15/13		22/19/13	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.85	0.17	0.65

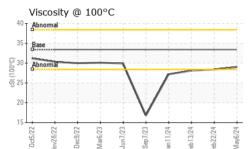
Report Id: DARDALTX [WUSCAR] 06175452 (Generated: 05/14/2024 14:00:06) Rev: 2

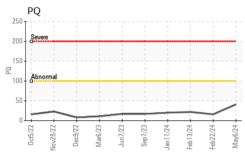
Submitted By: YON PALOMINO Page 1 of 2

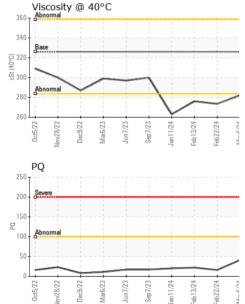


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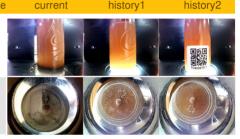




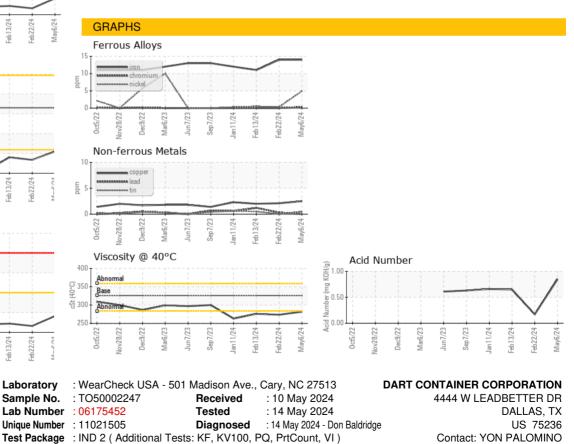


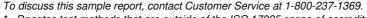


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Time mota						
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	A MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	A HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	326	282	273.5	276
Visc @ 100°C	cSt	ASTM D445	33.4	29.0	28.4	28.1
Viscosity Index (VI)	Scale	ASTM D2270	145	138	138	135
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



Bottom





* - 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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Certificate 12367

Submitted By: YON PALOMINO

yon.palomino@dart.biz

T: (214)775-5673

F:

Page 2 of 2