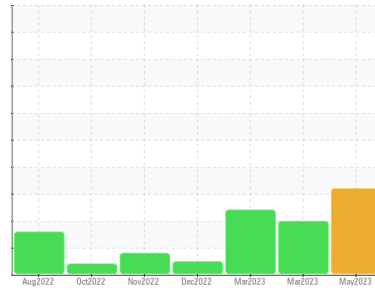


PROBLEM SUMMARY

Sample Rating Trend



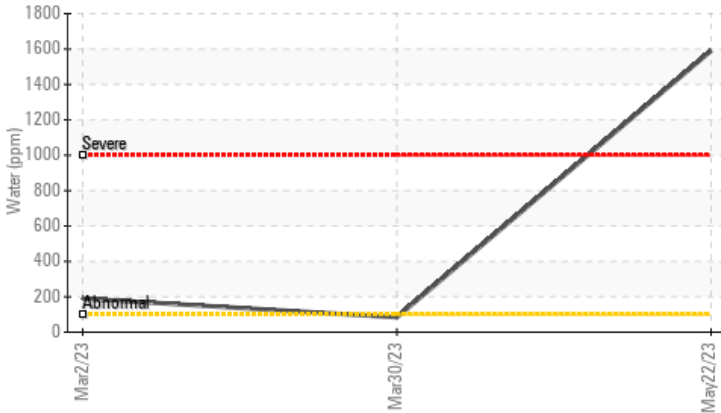
WATER



Area
Paper Cup Machines
Machine Id
PMC 1001 POS-121 (S/N 50286)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. 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. (Customer Sample Comment: Collected by CS)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304		▲ 0.159	0.008	0.019
ppm Water	ppm	ASTM D6304		▲ 1590	83.8	190
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	▲ HAZY	▲ HAZY
Emulsified Water	scalar	*Visual		▲ 0.2%	NEG	0.2%

Customer Id: DARDALTX
Sample No.: TO50001757
Lab Number: 05857976
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
Water Drain-off	MISSED	Jun 15 2023	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

30 Mar 2023 Diag: Angela Borella

CONTAMINANT



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. Appearance is hazy. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



02 Mar 2023 Diag: Jonathan Hester

WATER



We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is hazy. Free water present. The condition of the oil is acceptable for the time in service.

view report



09 Dec 2022 Diag: Jonathan Hester

NORMAL

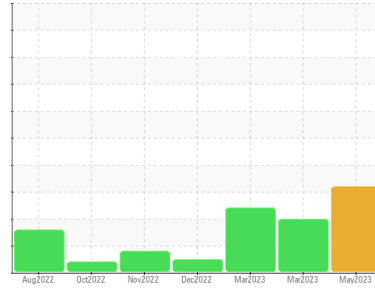


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



Area
Paper Cup Machines
 Machine Id
PMC 1001 POS-121 (S/N 50286)
 Component
Circulating System
 Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)



DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. 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. (Customer Sample Comment: Collected by CS)

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a light concentration of water present in the oil. There is a high 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	TO50001757	TO50001554	TO50001355
Sample Date	Client Info	22 May 2023	30 Mar 2023	02 Mar 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	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
PQ	ASTM D8184	12	16	17
Iron	ppm	12	7	8
Chromium	ppm	0	0	0
Nickel	ppm	0	0	4
Titanium	ppm	0	0	0
Silver	ppm	0	0	0
Aluminum	ppm	3	2	2
Lead	ppm	0	0	0
Copper	ppm	<1	1	<1
Tin	ppm	<1	0	0
Vanadium	ppm	0	0	<1
Cadmium	ppm	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	89	80	77
Barium	ppm	0	0	0
Molybdenum	ppm	0	0	0
Manganese	ppm	<1	<1	<1
Magnesium	ppm	0	10	1
Calcium	ppm	6	5	4
Phosphorus	ppm	496	497	459
Zinc	ppm	0	4	0
Sulfur	ppm	7765	7878	7299

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	3304	603	2233
Sodium	ppm	3	2	2
Potassium	ppm	<1	0	0
Water	%	▲ 0.159	0.008	0.019
ppm Water	ppm	▲ 1590	83.8	190

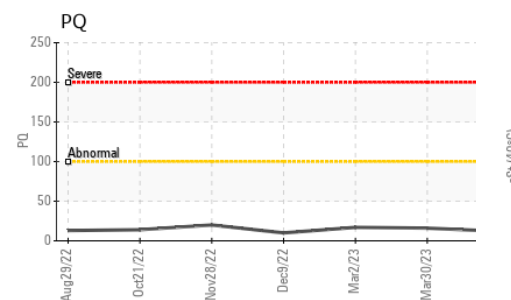
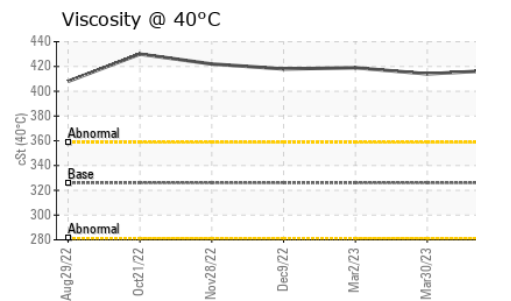
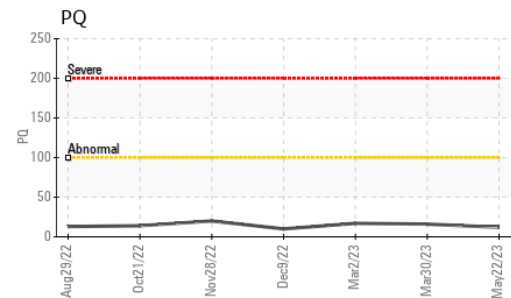
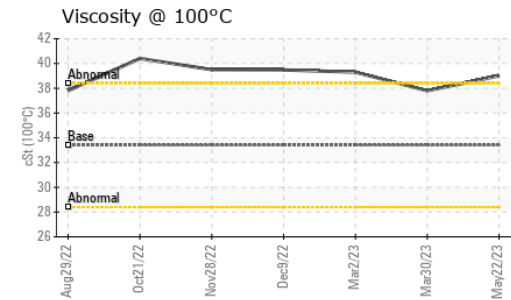
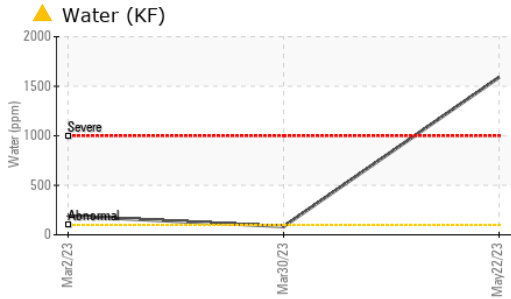
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	---	▲ 7487
Particles >6µm	ASTM D7647	>320	---	▲ 1053
Particles >14µm	ASTM D7647	>80	---	60
Particles >21µm	ASTM D7647	>20	---	12
Particles >38µm	ASTM D7647	>4	---	1
Particles >71µm	ASTM D7647	>3	---	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	---	▲ 20/17/13

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.66	0.69	---

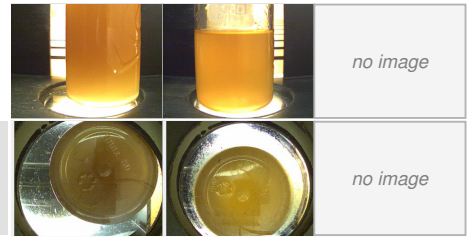
OIL ANALYSIS REPORT



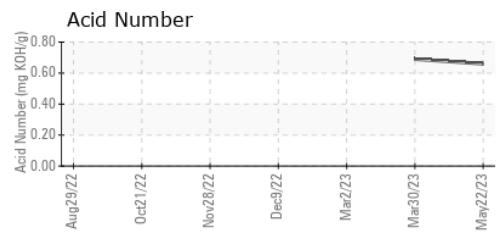
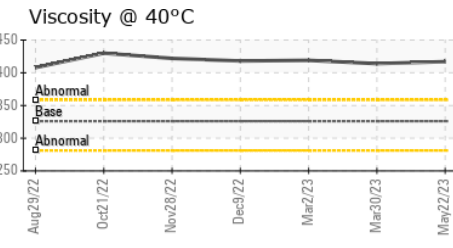
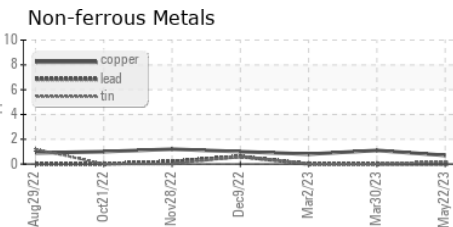
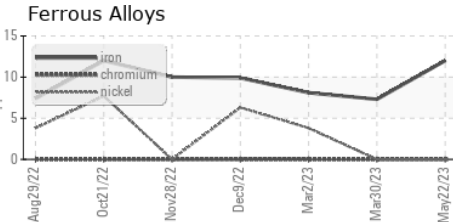
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	▲ 0.2%	NEG	0.2%
Free Water	scalar	*Visual	NEG	NEG	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	326	417	414
Visc @ 100°C	cSt	ASTM D445	33.4	39.0	37.8
Viscosity Index (VI)	Scale	ASTM D2270	145	140	136

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001757 **Received** : 26 May 2023
Lab Number : 05857976 **Diagnosed** : 30 May 2023
Unique Number : 10492441 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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 F:

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)