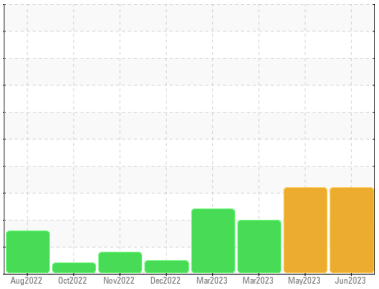
PROBLEM SUMMARY

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

No relevant graphs to display

RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. (Customer Sample Comment: Quarterly oil sample cs)

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Silt	scalar	*Visual	NONE	▲ **MODER**	▲ HEAVY	NONE
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ HAZY	▲ HAZY
Free Water	scalar	*Visual		▲ **1.0**	NEG	NEG

Customer Id: DARDALTX
Sample No.: TO50001768
Lab Number: 05867876
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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	---	---	?	We advise that you follow the water drain-off procedure for this component.

HISTORICAL DIAGNOSIS

22 May 2023 Diag: Jonathan Hester

WATER

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.All component wear rates are normal. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

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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

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02 Mar 2023 Diag: Jonathan Hester

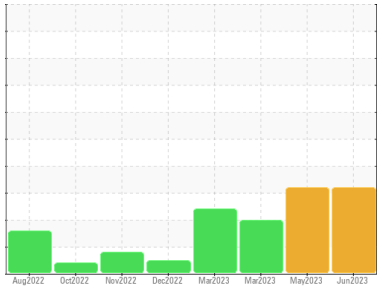
WATER

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

OIL ANALYSIS REPORT

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)

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. (Customer Sample Comment: Quarterly oil sample cs)

Wear
All component wear rates are normal.

Contamination
Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. Free water present.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**TO50001768**	TO50001757	TO50001554
Sample Date		Client Info		**05 Jun 2023**	22 May 2023	30 Mar 2023
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	ABNORMAL

WEAR METALS		method	limit/base	current	history 1	history 2
PQ		ASTM D8184		**12**	12	16
Iron	ppm	ASTM D5185m		**12**	12	7
Chromium	ppm	ASTM D5185m		**<1**	0	0
Nickel	ppm	ASTM D5185m		**6**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**<1**	3	2
Lead	ppm	ASTM D5185m		**0**	0	0
Copper	ppm	ASTM D5185m		**2**	<1	1
Tin	ppm	ASTM D5185m		**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**97**	89	80
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**	0	10
Calcium	ppm	ASTM D5185m		**1**	6	5
Phosphorus	ppm	ASTM D5185m		**468**	496	497
Zinc	ppm	ASTM D5185m		**0**	0	4
Sulfur	ppm	ASTM D5185m		**8059**	7765	7878

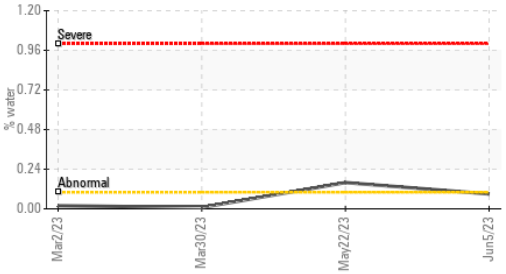
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m		**3523**	3304	603
Sodium	ppm	ASTM D5185m		**3**	3	2
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0
Water	%	ASTM D6304		**0.090**	▲ 0.159	0.008
ppm Water	ppm	ASTM D6304		**900**	▲ 1590	83.8

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
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

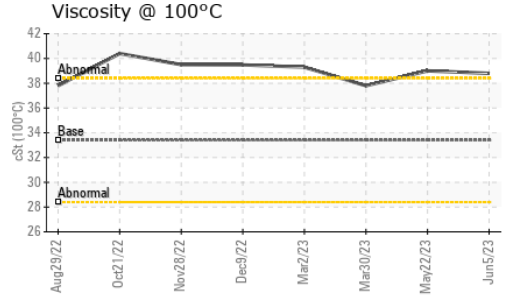
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.72**	0.66	0.69

OIL ANALYSIS REPORT

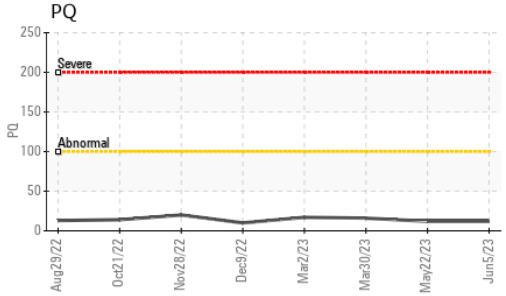
Water



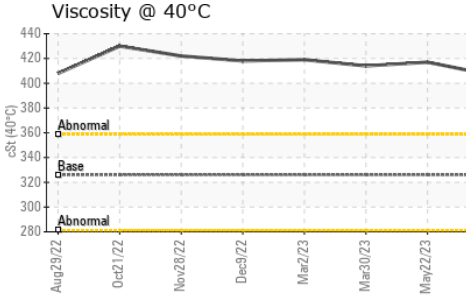
Viscosity @ 100°C



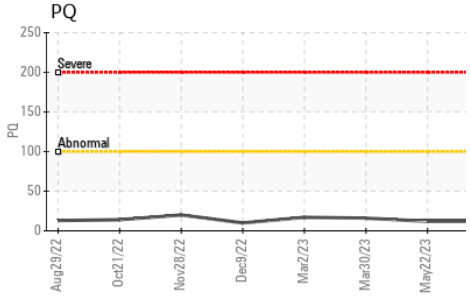
PQ



Viscosity @ 40°C



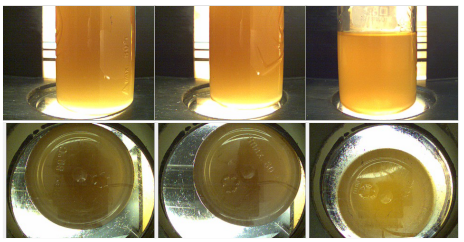
PQ



VISUAL		method	limit/base	current	history 1	history 2
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	▲ **MODER**	▲ HEAVY	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ HAZY	▲ HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual		**0.2%**	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ **1.0**	NEG	NEG

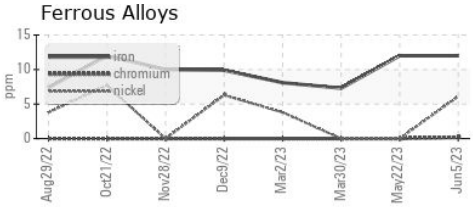
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	326	**407**	417	414
Visc @ 100°C	cSt	ASTM D445	33.4	**38.8**	39.0	37.8
Viscosity Index (VI)	Scale	ASTM D2270	145	**142**	140	136

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

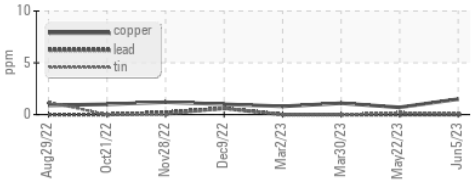


GRAPHS

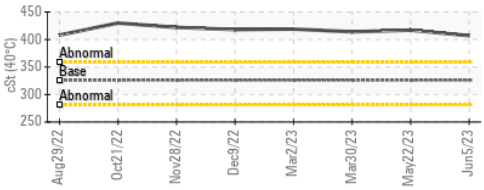
Ferrous Alloys



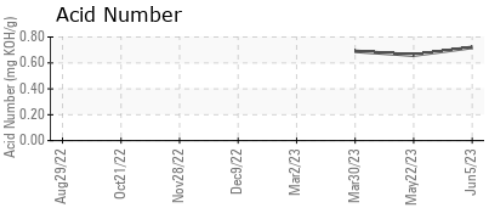
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001768 **Received** : 08 Jun 2023
Lab Number : 05867876 **Diagnosed** : 15 Jun 2023
Unique Number : 10507660 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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)

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