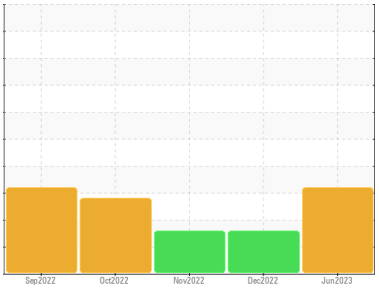
PROBLEM SUMMARY

Area
Paper Cup Machines
Machine Id
PMC 1003 POS-215 (S/N 15962)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

Sample Rating Trend



WATER

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for 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. (Customer Sample Comment: Cs)

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ATTENTION	ABNORMAL
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ MODER
Appearance	scalar	*Visual	NORML	▲ **HAZY**	NORML	▲ SOLID
Free Water	scalar	*Visual		▲ **10.0**	NEG	1.0

Customer Id: DARDALTX
Sample No.: TO50001690
Lab Number: 05873185
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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	Sep 01 2023	?	We advise that you follow the water drain-off procedure for this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Check Water Access	MISSED	Sep 01 2023	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

14 Dec 2022 Diag: Don Baldridge

DIRT

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.

view report

28 Nov 2022 Diag: Doug Bogart

SEDIMENT

We advise that you follow the water drain-off procedure for this component to remove more dense oil layer. We advise an early resample to confirm this situation.All component wear rates are normal. Appearance is layered. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid.

view report

25 Oct 2022 Diag: Don Baldridge

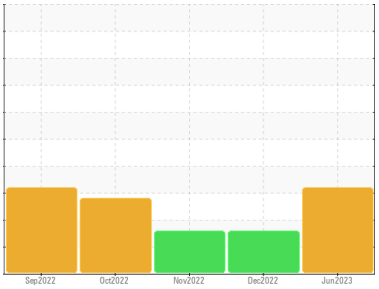
DIRT

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. Silicon noted. 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 1003 POS-215 (S/N 15962)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for 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. (Customer Sample Comment: Cs)

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO50001690**	TO50001376	TO50001195
Sample Date		Client Info		**09 Jun 2023**	14 Dec 2022	28 Nov 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Filtered	N/A
Sample Status				**ABNORMAL**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**26**	21	22
Iron	ppm	ASTM D5185m		**91**	84	75
Chromium	ppm	ASTM D5185m		**<1**	<1	<1
Nickel	ppm	ASTM D5185m		**9**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m		**2**	3	2
Lead	ppm	ASTM D5185m		**<1**	<1	0
Copper	ppm	ASTM D5185m		**2**	2	2
Tin	ppm	ASTM D5185m		**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

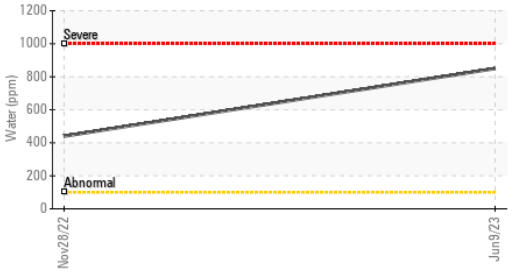
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**21**	26	26
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**1**	1	1
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**2**	5	<1
Phosphorus	ppm	ASTM D5185m		**454**	446	439
Zinc	ppm	ASTM D5185m		**10**	10	13
Sulfur	ppm	ASTM D5185m		**6119**	6140	6050

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**4141**	▲ 4838	4367
Sodium	ppm	ASTM D5185m		**6**	6	7
Potassium	ppm	ASTM D5185m	>20	**2**	0	0
Water	%	ASTM D6304		**0.085**	---	0.044
ppm Water	ppm	ASTM D6304		**850**	---	440

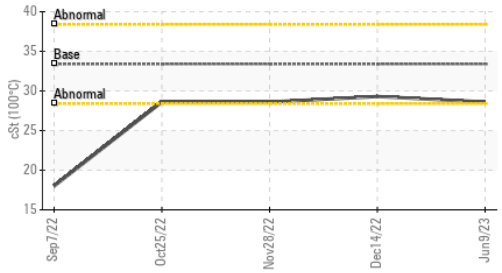
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.72**	---	---

OIL ANALYSIS REPORT

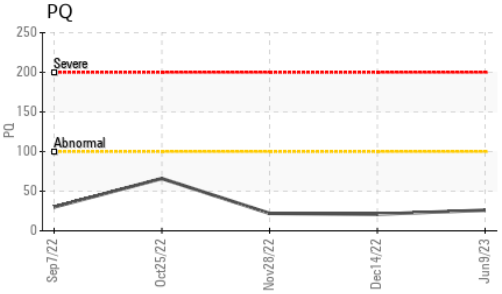
Water (KF)



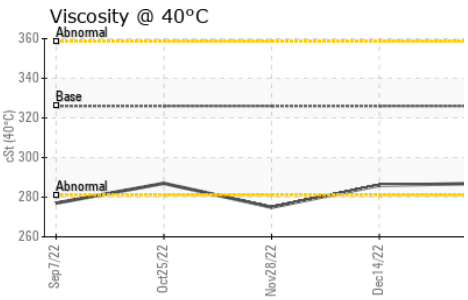
Viscosity @ 100°C



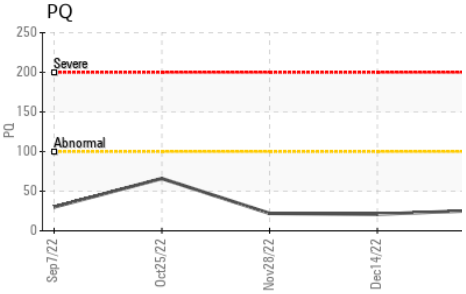
PQ



Viscosity @ 40°C

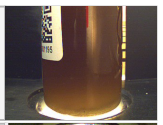
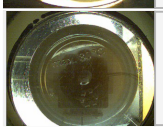


PQ



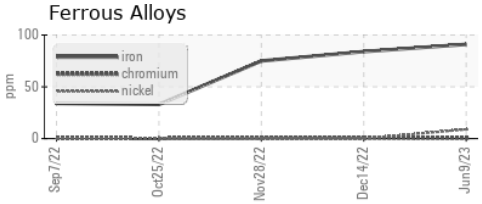
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ MODER
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **HAZY**	NORML	▲ SOLID
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual		**0.2%**	NEG	0.2%
Free Water	scalar	*Visual		▲ **10.0**	NEG	1.0

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	326	**287**	286	274.9
Visc @ 100°C	cSt	ASTM D445	33.4	**28.6**	29.3	28.6
Viscosity Index (VI)	Scale	ASTM D2270	145	**133**	138	138

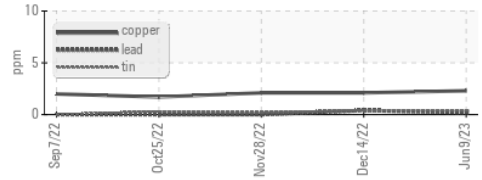
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	
Bottom				*no image*	

GRAPHS

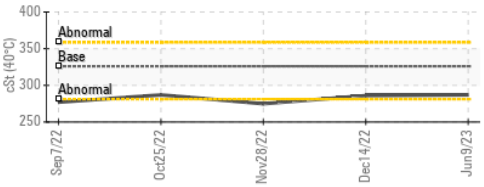
Ferrous Alloys



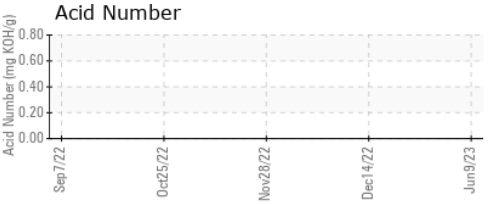
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001690 **Received** : 14 Jun 2023
Lab Number : 05873185 **Diagnosed** : 15 Jun 2023
Unique Number : 10512969 **Diagnostician** : Doug Bogart
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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