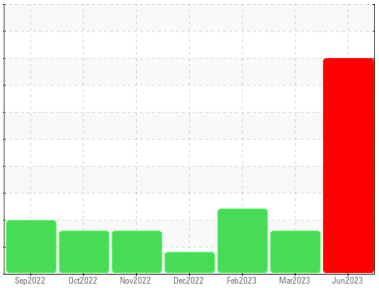
PROBLEM SUMMARY

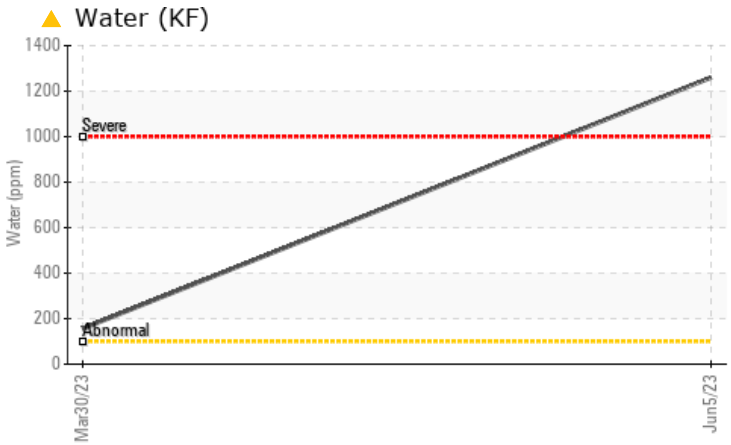
Sample Rating Trend



WATER

Area
Paper Cup Machines
Machine Id
PMC 1001 POS-125 (S/N 50299)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

COMPONENT CONDITION SUMMARY



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, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. (Customer Sample Comment: Quarterly oil sample)

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	ABNORMAL	ABNORMAL
Water	%	ASTM D6304		▲ **0.126**	0.015	---
ppm Water	ppm	ASTM D6304		▲ **1260**	156.2	---
Silt	scalar	*Visual	NONE	▲ **MODER**	▲ MODER	▲ MODER
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ HAZY	▲ SOLID
Emulsified Water	scalar	*Visual		▲ **0.2%**	NEG	NEG
Free Water	scalar	*Visual		⬢ **10.0**	NEG	>10%

Customer Id: DARDALTX
Sample No.: TO50001767
Lab Number: 05867875
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	MISSED	Sep 05 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.
Resample	MISSED	Sep 05 2023	?	We recommend an early resample to monitor this condition.
Check Water Access	MISSED	Sep 05 2023	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

30 Mar 2023 Diag: Angela Borella

SEDIMENT

Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid.

view report

27 Feb 2023 Diag: Jonathan Hester

WEAR

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

09 Dec 2022 Diag: Don Baldridge

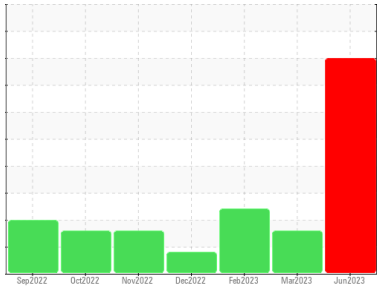
CONTAMINANT

Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is no indication of any contamination in the oil. 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-125 (S/N 50299)
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, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. (Customer Sample Comment: Quarterly oil sample)

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. Excessive free water present.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO50001767**	TO50001555	TO50001407
Sample Date		Client Info		**05 Jun 2023**	30 Mar 2023	27 Feb 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				**SEVERE**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**26**	16	22
Iron	ppm	ASTM D5185m		**18**	16	19
Chromium	ppm	ASTM D5185m		**<1**	<1	0
Nickel	ppm	ASTM D5185m		**18**	0	▲ 24
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	<1	2
Aluminum	ppm	ASTM D5185m		**<1**	2	2
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		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

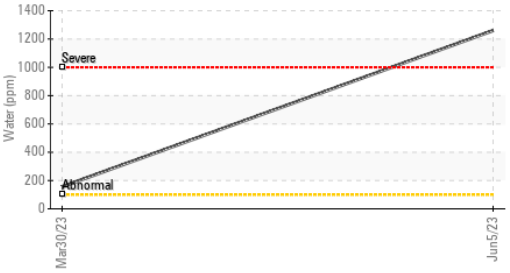
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**128**	112	109
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	1
Magnesium	ppm	ASTM D5185m		**<1**	10	6
Calcium	ppm	ASTM D5185m		**0**	4	4
Phosphorus	ppm	ASTM D5185m		**484**	533	418
Zinc	ppm	ASTM D5185m		**0**	5	5
Sulfur	ppm	ASTM D5185m		**9830**	10044	8902

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**9829**	3783	10000
Sodium	ppm	ASTM D5185m		**2**	1	2
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0
Water	%	ASTM D6304		▲ **0.126**	0.015	---
ppm Water	ppm	ASTM D6304		▲ **1260**	156.2	---

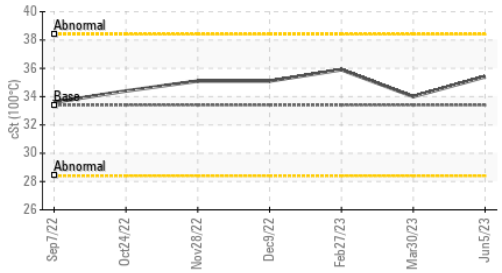
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.94**	0.92	---

OIL ANALYSIS REPORT

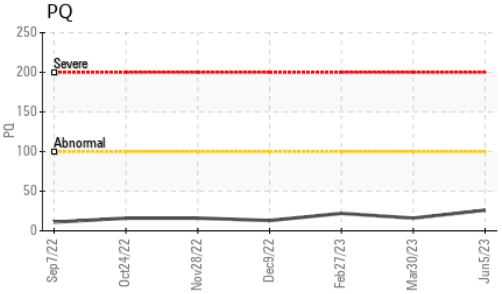
Water (KF)



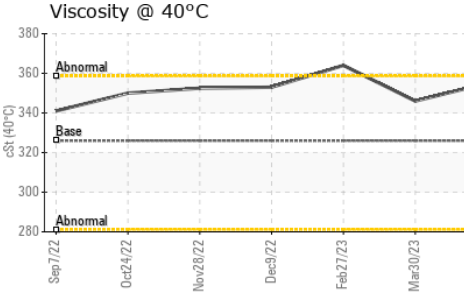
Viscosity @ 100°C



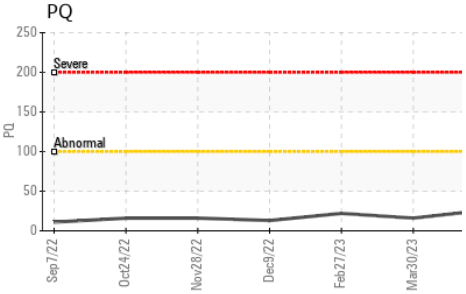
PQ



Viscosity @ 40°C



PQ



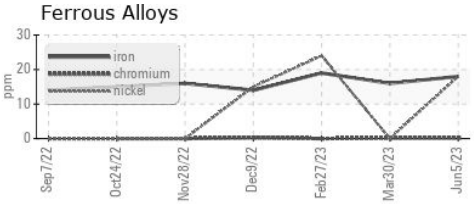
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	▲ MODER	▲ MODER
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **HAZY**	▲ HAZY	▲ SOLID
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual		▲ **0.2%**	NEG	NEG
Free Water	scalar	*Visual		⬢ **10.0**	NEG	>10%

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	326	**355**	346	364
Visc @ 100°C	cSt	ASTM D445	33.4	**35.4**	34.0	35.9
Viscosity Index (VI)	Scale	ASTM D2270	145	**143**	140	143

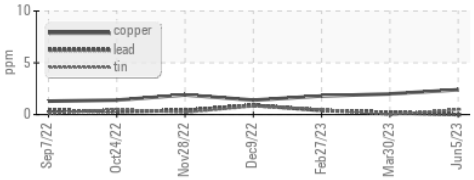
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

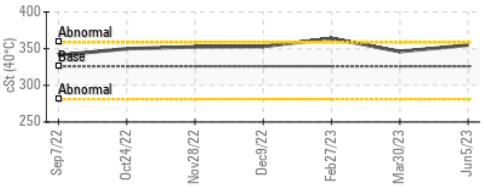
Ferrous Alloys



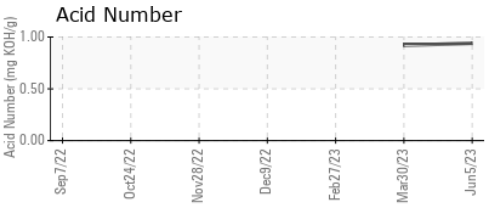
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001767 **Received** : 08 Jun 2023
Lab Number : 05867875 **Diagnosed** : 15 Jun 2023
Unique Number : 10507659 **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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