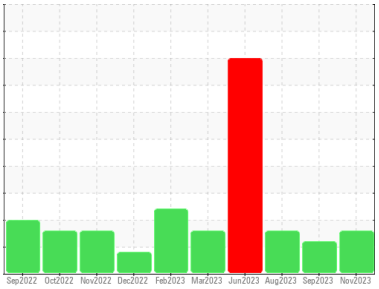
PROBLEM SUMMARY

Sample Rating Trend



SEDIMENT

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

No relevant graphs to display

RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ HEAVY
Appearance	scalar	*Visual	NORML	▲ **HAZY**	NORML	▲ HAZY

Customer Id: DARDALTX
Sample No.: TO50001752
Lab Number: 06014037
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

27 Sep 2023 Diag: Jonathan Hester

ISO

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

view report

25 Aug 2023 Diag: Doug Bogart

SEDIMENT

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

view report

05 Jun 2023 Diag: Don Baldridge

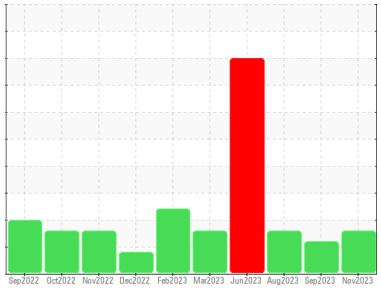
WATER

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.All component wear rates are normal. 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. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT

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
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Appearance is hazy. 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		**TO50001752**	TO50001167	TO50001782
Sample Date		Client Info		**16 Nov 2023**	27 Sep 2023	25 Aug 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**17**	20	23
Iron	ppm	ASTM D5185m		**14**	15	22
Chromium	ppm	ASTM D5185m		**<1**	<1	0
Nickel	ppm	ASTM D5185m		**9**	6	22
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**2**	<1	3
Lead	ppm	ASTM D5185m		**<1**	<1	<1
Copper	ppm	ASTM D5185m		**2**	2	2
Tin	ppm	ASTM D5185m		**<1**	<1	1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**119**	110	135
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**<1**	<1	4
Calcium	ppm	ASTM D5185m		**4**	34	2
Phosphorus	ppm	ASTM D5185m		**518**	488	514
Zinc	ppm	ASTM D5185m		**0**	7	<1
Sulfur	ppm	ASTM D5185m		**9319**	8691	9279

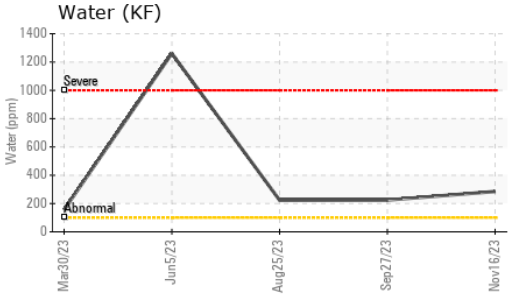
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**7891**	3359	10000
Sodium	ppm	ASTM D5185m		**<1**	2	2
Potassium	ppm	ASTM D5185m	>20	**1**	1	1
Water	%	ASTM D6304		**0.028**	0.022	0.022
ppm Water	ppm	ASTM D6304		**285**	224.3	223.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	**---**	▲ 85812	---
Particles >6µm		ASTM D7647	>320	**---**	▲ 7168	---
Particles >14µm		ASTM D7647	>80	**---**	33	---
Particles >21µm		ASTM D7647	>20	**---**	6	---
Particles >38µm		ASTM D7647	>4	**---**	1	---
Particles >71µm		ASTM D7647	>3	**---**	1	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	**---**	▲ 24/20/12	---

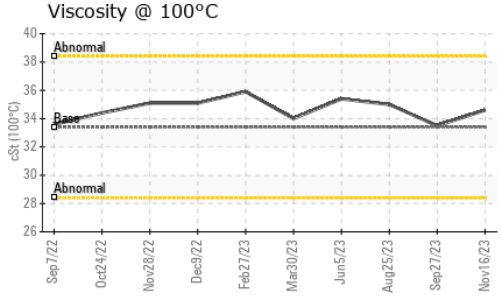
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.86**	0.87	0.91

OIL ANALYSIS REPORT

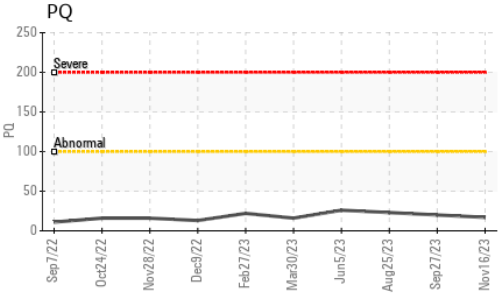
Water (KF)



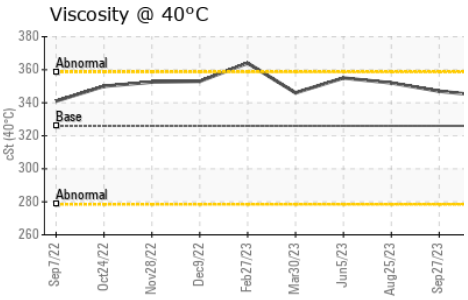
Viscosity @ 100°C



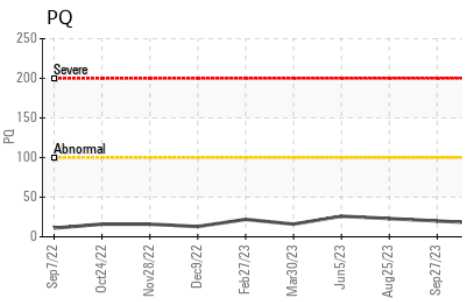
PQ



Viscosity @ 40°C

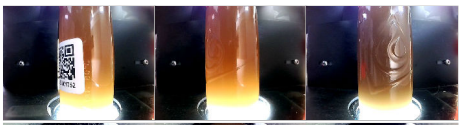


PQ



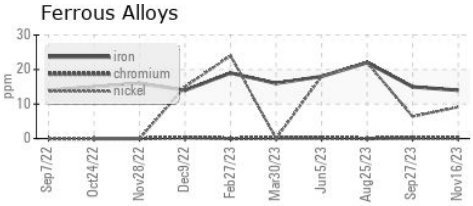
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ HEAVY
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ **HAZY**	NORML	▲ HAZY
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	**344**	347	352
Visc @ 100°C	cSt	ASTM D445	33.4	**34.6**	33.5	35.0
Viscosity Index (VI)	Scale	ASTM D2270	145	**143**	137	142

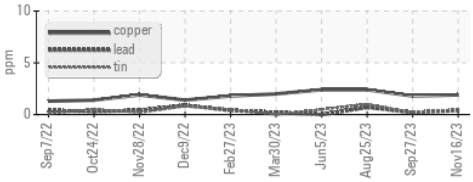
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

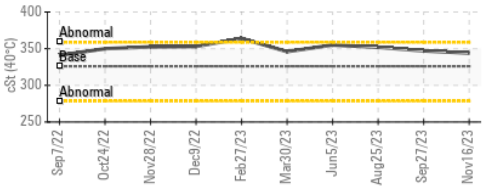
Ferrous Alloys



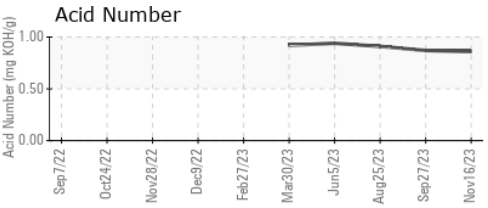
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001752 **Received** : 21 Nov 2023
Lab Number : 06014037 **Diagnosed** : 24 Nov 2023
Unique Number : 10753181 **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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