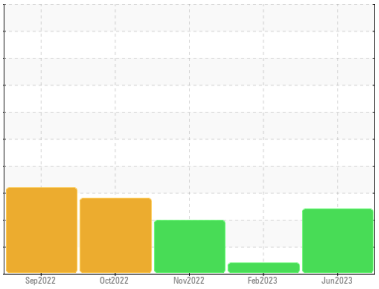
PROBLEM SUMMARY

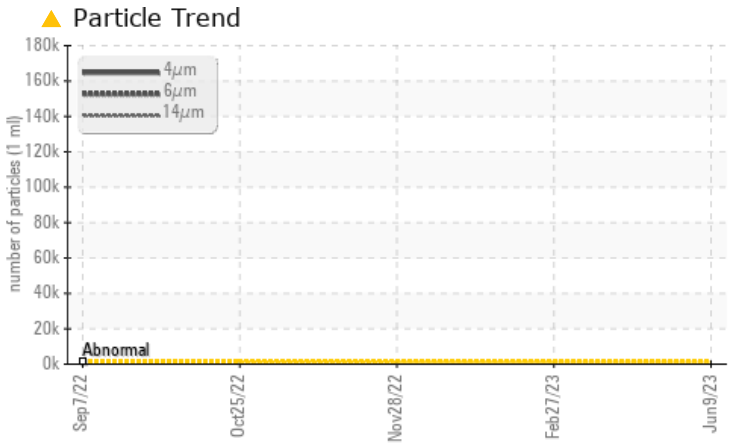
Sample Rating Trend



ISO

Area
Paper Cup Machines
Machine Id
PMC 1003 POS-214 (S/N 15960)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: Cs)

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>1300	▲ **174764**	---	---
Particles >6µm		ASTM D7647	>320	▲ **76414**	---	---
Particles >14µm		ASTM D7647	>80	▲ **3263**	---	---
Particles >21µm		ASTM D7647	>20	▲ **485**	---	---
Particles >38µm		ASTM D7647	>4	▲ **17**	---	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ **25/23/19**	---	---

Customer Id: DARDALTX
Sample No.: TO50001689
Lab Number: 05873184
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
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

27 Feb 2023 Diag: Jonathan Hester

VIS DEBRIS

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report

28 Nov 2022 Diag: Doug Bogart

SEDIMENT

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 moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.

view report

25 Oct 2022 Diag: Don Baldridge

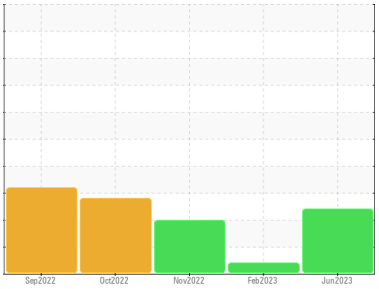
DIRT

No corrective action is recommended at this time. Resample at the next service interval to monitor.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



ISO

Area
Paper Cup Machines
Machine Id
PMC 1003 POS-214 (S/N 15960)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: Cs)

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

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		**TO50001689**	TO50001413	TO50001205
Sample Date		Client Info		**09 Jun 2023**	27 Feb 2023	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**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**30**	28	4
Iron	ppm	ASTM D5185m		**22**	19	18
Chromium	ppm	ASTM D5185m		**0**	0	0
Nickel	ppm	ASTM D5185m		**5**	5	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**0**	<1	<1
Lead	ppm	ASTM D5185m		**<1**	0	<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		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**18**	17	22
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**	5	0
Calcium	ppm	ASTM D5185m		**2**	1	<1
Phosphorus	ppm	ASTM D5185m		**417**	433	443
Zinc	ppm	ASTM D5185m		**3**	5	2
Sulfur	ppm	ASTM D5185m		**5619**	5842	6095

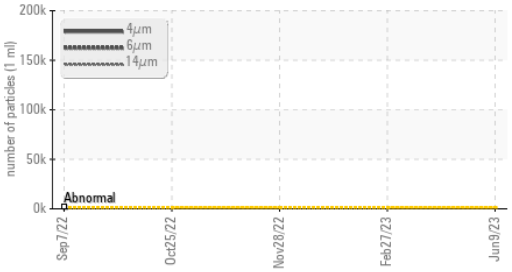
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**2341**	2569	2861
Sodium	ppm	ASTM D5185m		**0**	<1	1
Potassium	ppm	ASTM D5185m	>20	**1**	1	0
Water	%	ASTM D6304		**0.013**	---	---
ppm Water	ppm	ASTM D6304		**136.3**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	▲ **174764**	---	---
Particles >6µm		ASTM D7647	>320	▲ **76414**	---	---
Particles >14µm		ASTM D7647	>80	▲ **3263**	---	---
Particles >21µm		ASTM D7647	>20	▲ **485**	---	---
Particles >38µm		ASTM D7647	>4	▲ **17**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ **25/23/19**	---	---

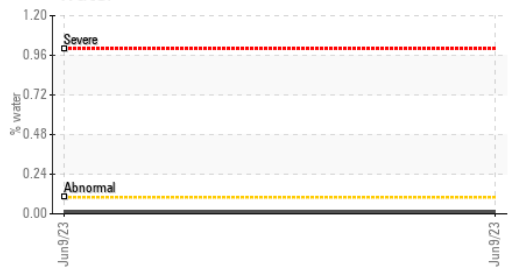
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.71**	---	---

OIL ANALYSIS REPORT

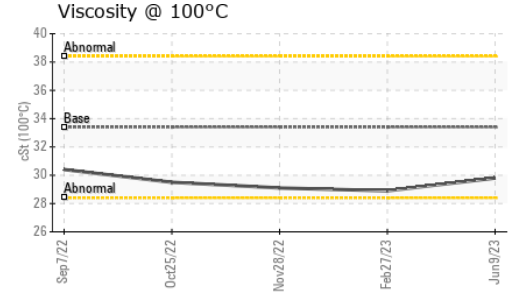
Particle Trend



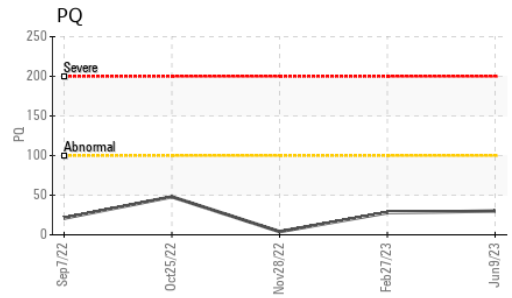
Water



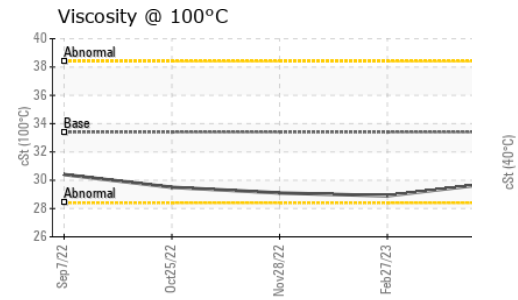
Viscosity @ 100°C



PQ

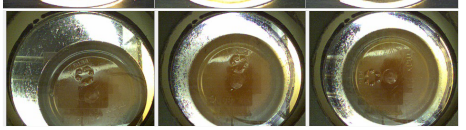


Viscosity @ 100°C



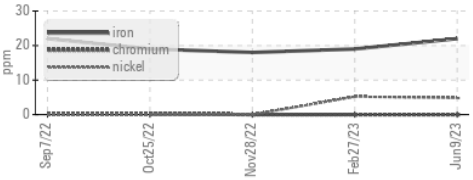
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MODER**	NONE	▲ MODER
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	▲ MODER
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	**298**	296	295.8
Visc @ 100°C	cSt	ASTM D445	33.4	**29.8**	28.9	29.1
Viscosity Index (VI)	Scale	ASTM D2270	145	**136**	131	132

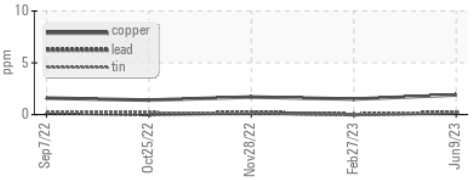
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS

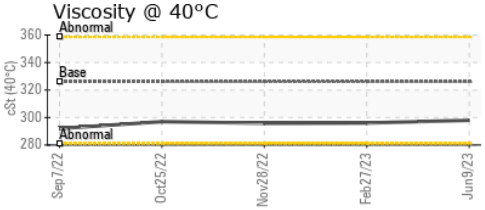
Ferrous Alloys



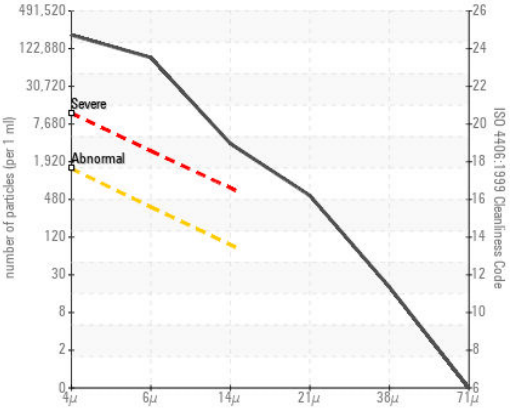
Non-ferrous Metals



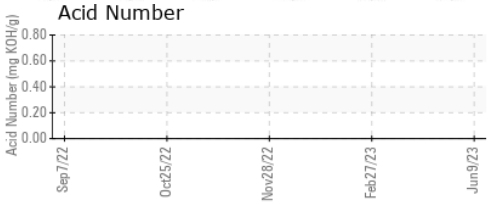
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001689 **Received** : 14 Jun 2023
Lab Number : 05873184 **Diagnosed** : 15 Jun 2023
Unique Number : 10512968 **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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Report Id: DARDALTX [WUSCAR] 05873184 (Generated: 08/11/2023 09:33:32) Rev: 1

Submitted By: YON PALOMINO