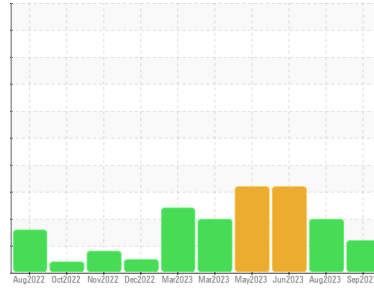
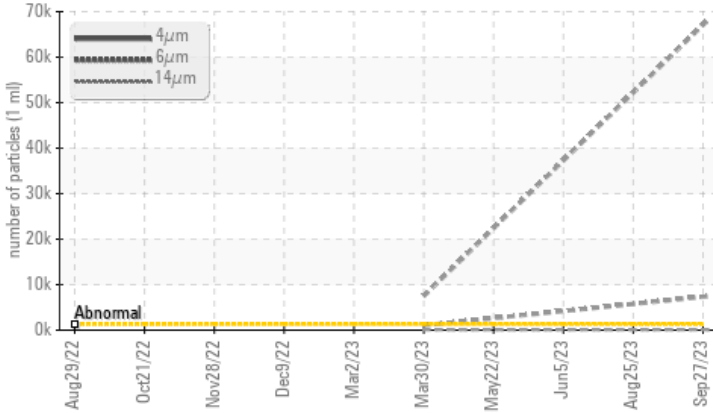


Area
Paper Cup Machines
 Machine Id
PMC 1001 POS-121 (S/N 50286)
 Component
Circulating System
 Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>1300	▲ 67092	---	---
Particles >6µm	ASTM D7647	>320	▲ 7336	---	---
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ 23/20/13	---	---

Customer Id: DARDALTX
 Sample No.: TO50001714
 Lab Number: 05967775
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@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

25 Aug 2023 Diag: Doug Bogart

SEDIMENT



We recommend you service the filters on this component if applicable. 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. There is a high amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



05 Jun 2023 Diag: Don Baldrige

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. Moderate concentration of visible dirt/debris present in the oil. Free water present. The AN level is acceptable for this fluid.

[view report](#)



22 May 2023 Diag: Jonathan Hester

WATER

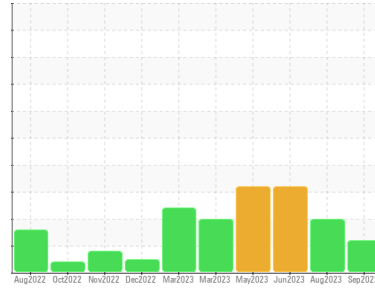


We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this 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](#)



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 recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) 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	TO50001714	TO50001795	TO50001768
Sample Date	Client Info	27 Sep 2023	25 Aug 2023	05 Jun 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	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	21	18	12
Iron	ppm	12	12	12
Chromium	ppm	0	0	<1
Nickel	ppm	6	9	6
Titanium	ppm	0	0	<1
Silver	ppm	0	0	0
Aluminum	ppm	1	4	<1
Lead	ppm	<1	0	0
Copper	ppm	1	<1	2
Tin	ppm	<1	0	<1
Vanadium	ppm	0	0	0
Cadmium	ppm	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	76	90	97
Barium	ppm	0	0	0
Molybdenum	ppm	0	0	0
Manganese	ppm	<1	0	<1
Magnesium	ppm	<1	1	<1
Calcium	ppm	6	4	1
Phosphorus	ppm	444	503	468
Zinc	ppm	2	0	0
Sulfur	ppm	6855	8051	8059

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	2974	4863	3523
Sodium	ppm	3	2	3
Potassium	ppm	1	<1	0
Water	%	0.014	0.010	0.090
ppm Water	ppm	145.4	104.5	900

FLUID CLEANLINESS

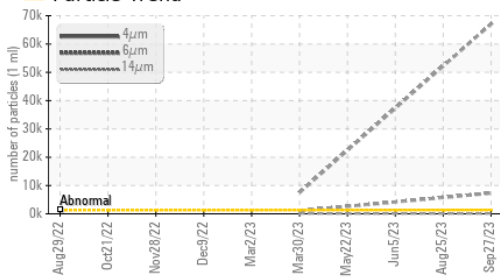
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	▲ 67092	---	---
Particles >6µm	ASTM D7647	▲ 7336	---	---
Particles >14µm	ASTM D7647	64	---	---
Particles >21µm	ASTM D7647	8	---	---
Particles >38µm	ASTM D7647	3	---	---
Particles >71µm	ASTM D7647	0	---	---
Oil Cleanliness	ISO 4406 (c)	▲ 23/20/13	---	---

FLUID DEGRADATION

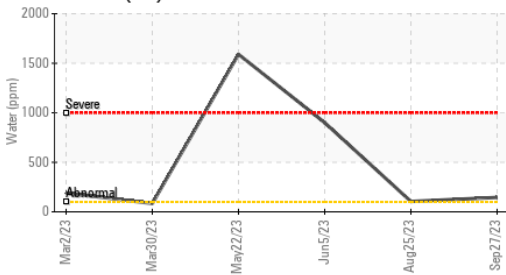
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.71	0.46	0.72

OIL ANALYSIS REPORT

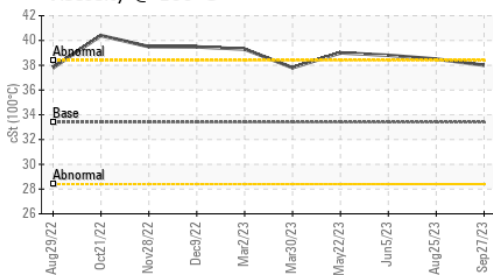
▲ Particle Trend



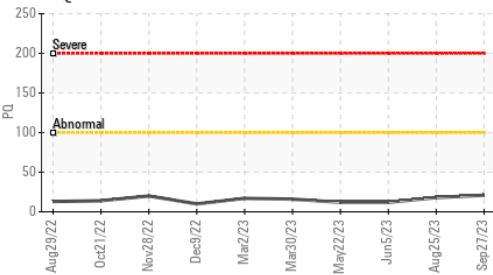
Water (KF)



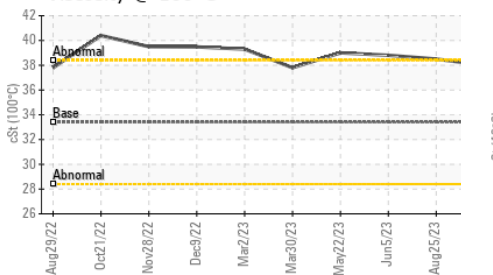
Viscosity @ 100°C



PQ



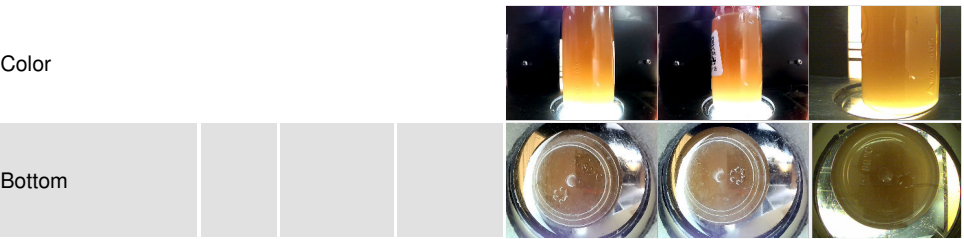
Viscosity @ 100°C



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

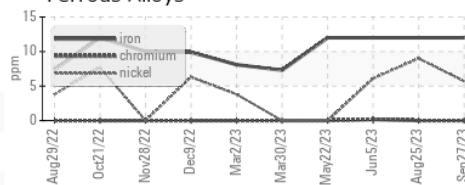
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	326	411	400.9
Visc @ 100°C	cSt	ASTM D445	33.4	38.0	38.5
Viscosity Index (VI)	Scale	ASTM D2270	145	138	143

SAMPLE IMAGES

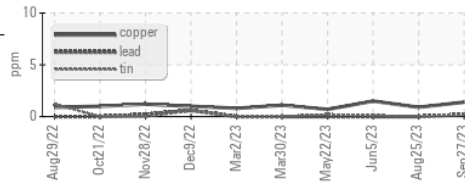


GRAPHS

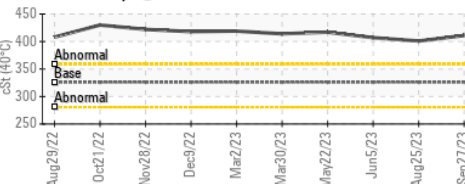
Ferrous Alloys



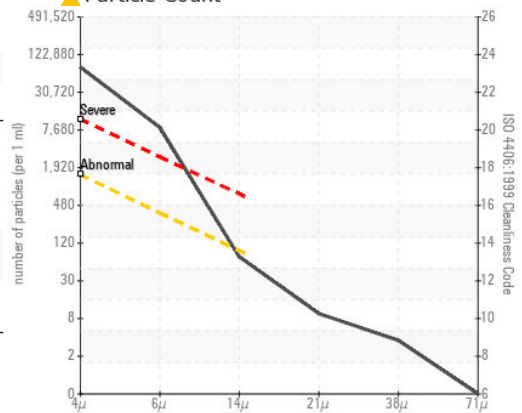
Non-ferrous Metals



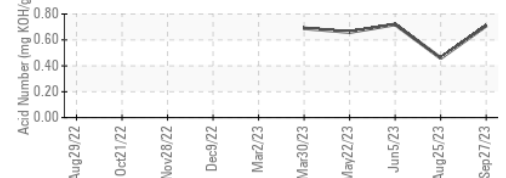
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001714 **Received** : 03 Oct 2023
Lab Number : 05967775 **Diagnosed** : 05 Oct 2023
Unique Number : 10674326 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

DART CONTAINER CORPORATION
 4444 W LEADBETTER DR
 DALLAS, TX
 US 75236
 Contact: YON PALOMINO
 yon.palomino@dart.biz
 T: (214)775-5673
 F:

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)