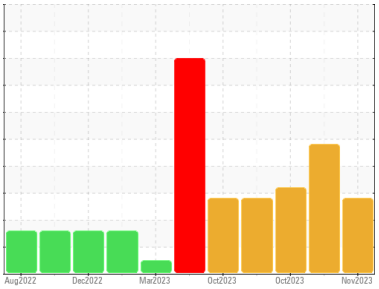
PROBLEM SUMMARY

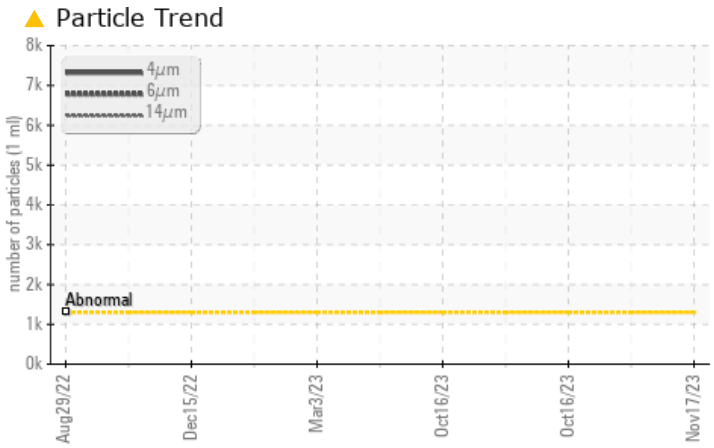
Sample Rating Trend



ISO

Area
Paper Cup Machines
Machine Id
PMC 1003 POS-426 (S/N 189471)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>1300	▲ **7264**	---	---
Particles >6µm		ASTM D7647	>320	▲ **3957**	---	---
Particles >14µm		ASTM D7647	>80	▲ **673**	---	---
Particles >21µm		ASTM D7647	>20	▲ **227**	---	---
Particles >38µm		ASTM D7647	>4	▲ **35**	---	---
Particles >71µm		ASTM D7647	>3	▲ **4**	---	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ **20/19/17**	---	---

Customer Id: DARDALTX
Sample No.: TO50001991
Lab Number: 06015054
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.

HISTORICAL DIAGNOSIS

16 Nov 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. Excessive free water present. There is a moderate 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

16 Oct 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. Excessive free water present. There is a moderate 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

16 Oct 2023 Diag: Jonathan Hester

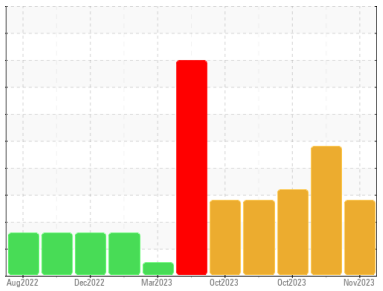
WATER

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. Free water present. 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

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Paper Cup Machines
Machine Id
PMC 1003 POS-426 (S/N 189471)
Component
Circulating System
Fluid
SUMMIT Syngear SH-1032 320 (85 GAL)

DIAGNOSIS

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

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		**TO50001991**	TO50001753	TO50001176
Sample Date		Client Info		**17 Nov 2023**	16 Nov 2023	16 Oct 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**13**	16	13
Iron	ppm	ASTM D5185m		**11**	10	12
Chromium	ppm	ASTM D5185m		**<1**	<1	0
Nickel	ppm	ASTM D5185m		**16**	8	12
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m		**2**	2	<1
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		**<1**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**98**	97	60
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**<1**	<1	0
Calcium	ppm	ASTM D5185m		**3**	3	<1
Phosphorus	ppm	ASTM D5185m		**495**	486	466
Zinc	ppm	ASTM D5185m		**0**	0	0
Sulfur	ppm	ASTM D5185m		**7443**	8403	6615

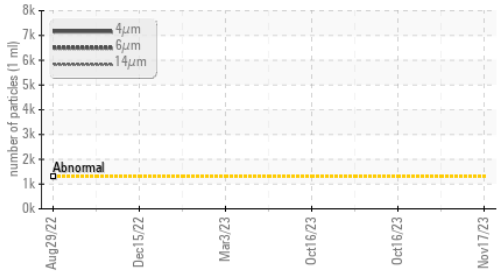
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**14651**	6997	5483
Sodium	ppm	ASTM D5185m		**0**	0	1
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	0
Water	%	ASTM D6304		**0.030**	▲ 0.173	0.054
ppm Water	ppm	ASTM D6304		**304**	▲ 1730	540

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	▲ **7264**	---	---
Particles >6µm		ASTM D7647	>320	▲ **3957**	---	---
Particles >14µm		ASTM D7647	>80	▲ **673**	---	---
Particles >21µm		ASTM D7647	>20	▲ **227**	---	---
Particles >38µm		ASTM D7647	>4	▲ **35**	---	---
Particles >71µm		ASTM D7647	>3	▲ **4**	---	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ **20/19/17**	---	---

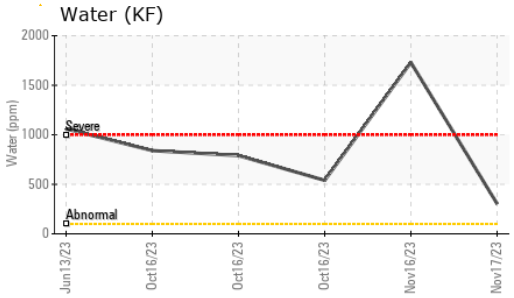
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.69**	0.74	0.68

OIL ANALYSIS REPORT

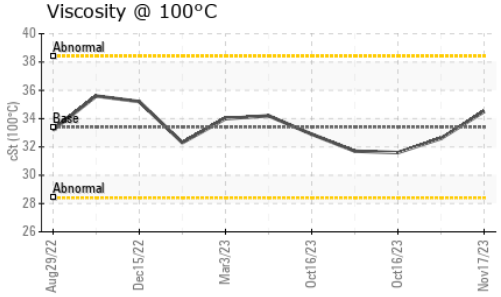
Particle Trend



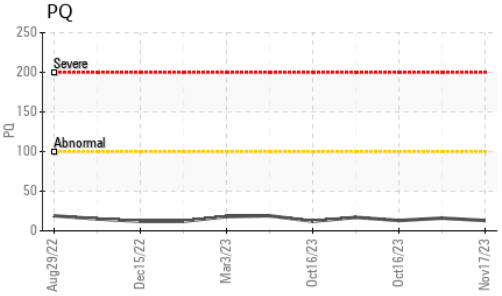
Water (KF)



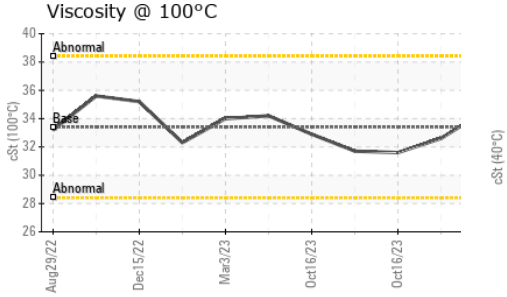
Viscosity @ 100°C



PQ



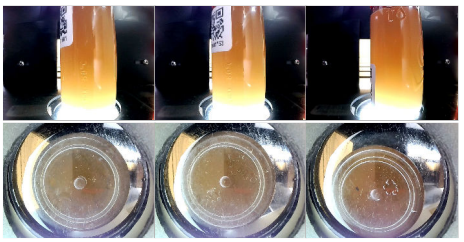
Viscosity @ 100°C



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

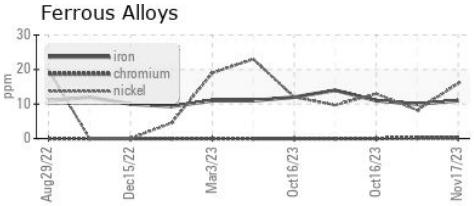
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	326	**342**	325.9	314
Visc @ 100°C	cSt	ASTM D445	33.4	**34.5**	32.6	31.6
Viscosity Index (VI)	Scale	ASTM D2270	145	**144**	140	139

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

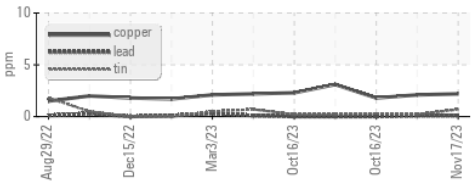


GRAPHS

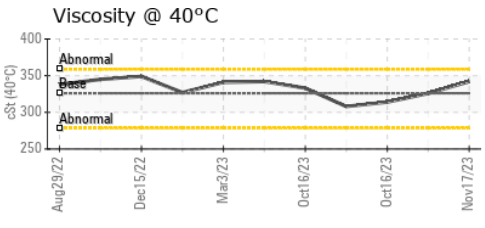
Ferrous Alloys



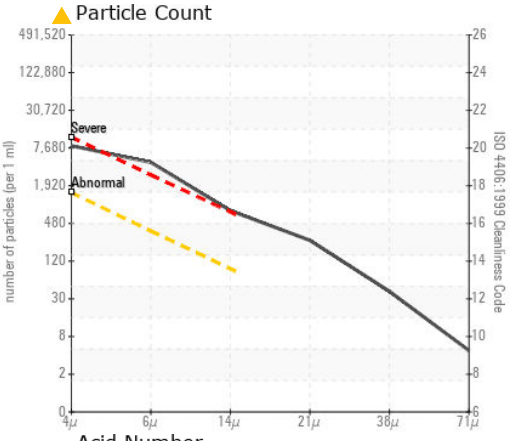
Non-ferrous Metals



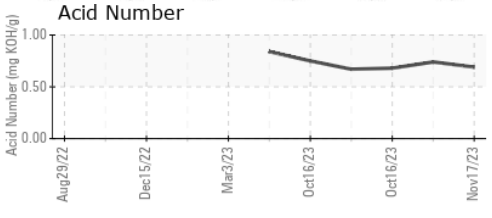
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001991 **Received** : 22 Nov 2023
Lab Number : 06015054 **Diagnosed** : 30 Nov 2023
Unique Number : 10754198 **Diagnostician** : Jonathan Hester
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)

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

Report Id: DARDALTX [WUSCAR] 06015054 (Generated: 11/30/2023 14:56:20) Rev: 1

Submitted By: YON PALOMINO