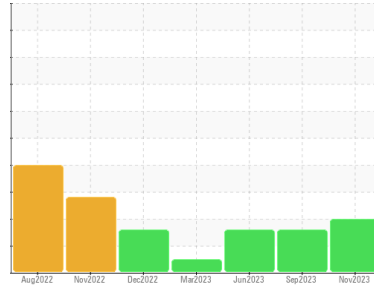


PROBLEM SUMMARY

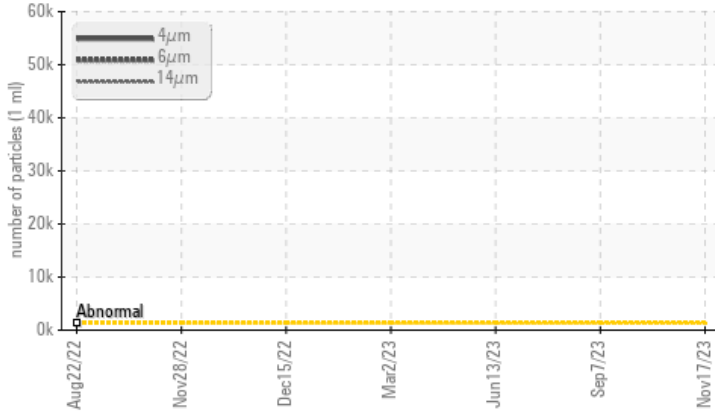
Sample Rating Trend



Area
Paper Cup Machines
 Machine Id
PMC 1003 POS-401 (S/N 181327)
 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	▲ 56278	---	---
Particles >6µm	ASTM D7647	>320	▲ 6272	---	---
Particles >14µm	ASTM D7647	>80	▲ 153	---	---
Particles >21µm	ASTM D7647	>20	▲ 43	---	---
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ 23/20/14	---	---

Customer Id: DARDALTX
 Sample No.: TO50001996
 Lab Number: 06015053
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +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
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

07 Sep 2023 Diag: Jonathan Hester

VISUAL METAL



We recommend you service the filters on this component. 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. Moderate concentration of visible metal present. All component wear rates are normal. 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](#)



13 Jun 2023 Diag: Jonathan Hester

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. Appearance is hazy. 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](#)



02 Mar 2023 Diag: Jonathan Hester

NORMAL



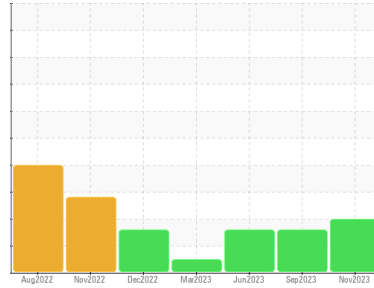
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



OIL ANALYSIS REPORT

Sample Rating Trend



Area
Paper Cup Machines
 Machine Id
PMC 1003 POS-401 (S/N 181327)
 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 particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	TO50001996	TO50001720	TO50001728
Sample Date	Client Info	17 Nov 2023	07 Sep 2023	13 Jun 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Not Chngd	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	16	38	17	
Iron	ppm	ASTM D5185m	11	17	11
Chromium	ppm	ASTM D5185m	<1	<1	0
Nickel	ppm	ASTM D5185m	7	<1	12
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	2	0	0
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	0
Cadmium	ppm	ASTM D5185m	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	81	74	71
Barium	ppm	ASTM D5185m	0	0	2
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	<1	2	<1
Calcium	ppm	ASTM D5185m	4	3	4
Phosphorus	ppm	ASTM D5185m	479	474	419
Zinc	ppm	ASTM D5185m	0	0	5
Sulfur	ppm	ASTM D5185m	6475	8126	7320

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	6477	3958	5964	
Sodium	ppm	ASTM D5185m	<1	2	0	
Potassium	ppm	ASTM D5185m	>20	1	<1	2
Water	%	ASTM D6304	0.027	0.008	0.026	
ppm Water	ppm	ASTM D6304	277	83.2	267.0	

FLUID CLEANLINESS

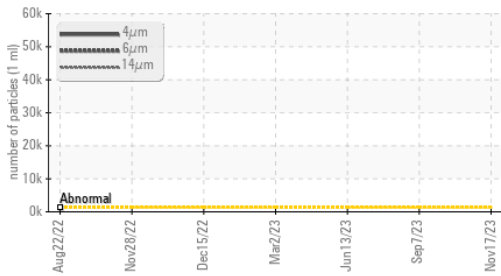
method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>1300	▲ 56278	---	---
Particles >6µm	ASTM D7647	>320	▲ 6272	---	---
Particles >14µm	ASTM D7647	>80	▲ 153	---	---
Particles >21µm	ASTM D7647	>20	▲ 43	---	---
Particles >38µm	ASTM D7647	>4	2	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ 23/20/14	---	---

FLUID DEGRADATION

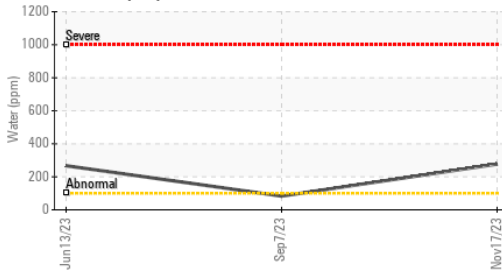
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	0.67	0.70

OIL ANALYSIS REPORT

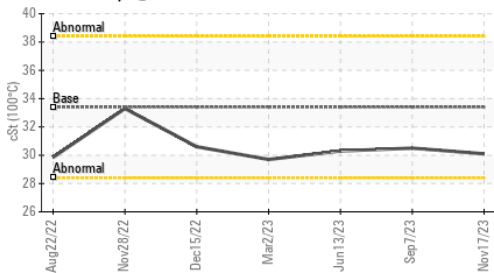
▲ Particle Trend



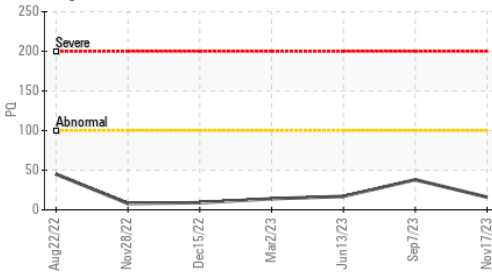
Water (KF)



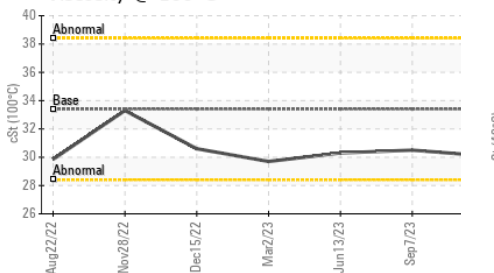
Viscosity @ 100°C



PQ



Viscosity @ 100°C

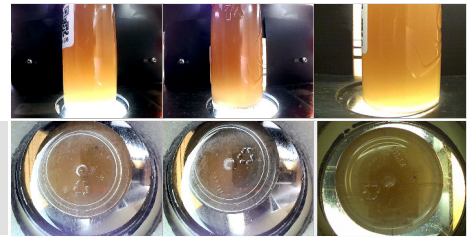


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	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	295	299	295
Visc @ 100°C	cSt	ASTM D445	33.4	30.1	30.5	30.3
Viscosity Index (VI)	Scale	ASTM D2270	145	138	139	140

SAMPLE IMAGES

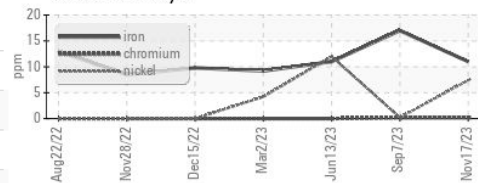
Color



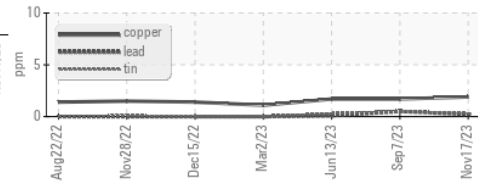
Bottom

GRAPHS

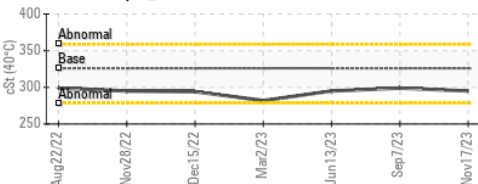
Ferrous Alloys



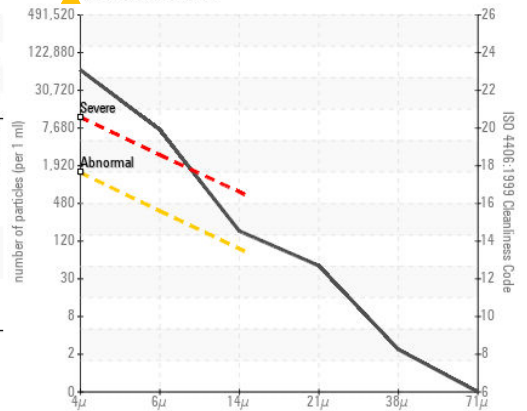
Non-ferrous Metals



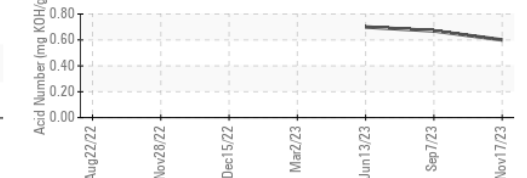
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001996 **Received** : 22 Nov 2023
Lab Number : 06015053 **Diagnosed** : 26 Nov 2023
Unique Number : 10754197 **Diagnostician** : Don Baldrige
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)