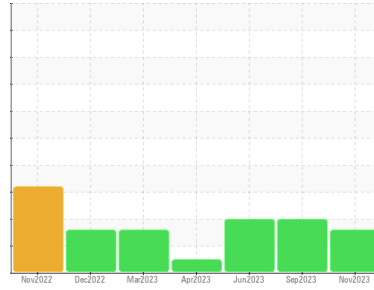


PROBLEM SUMMARY

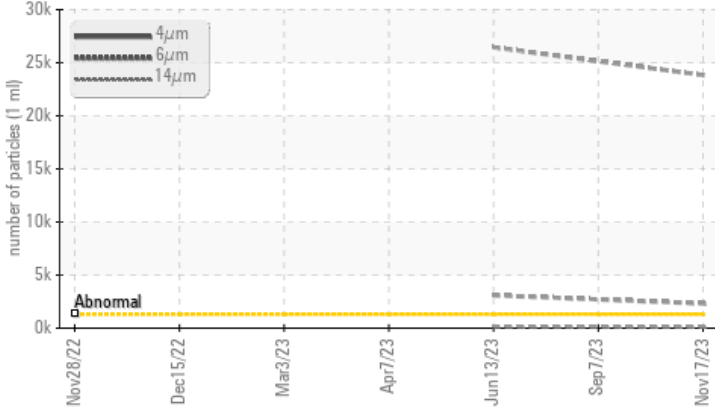
Sample Rating Trend



Area
Paper Cup Machines
 Machine Id
PMC 1003 POS-406 (S/N 1818325-2580-1)
 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	▲ 23836	---	▲ 26447
Particles >6µm	ASTM D7647	>320	▲ 2314	---	▲ 3082
Particles >14µm	ASTM D7647	>80	▲ 83	---	▲ 112
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ 22/18/14	---	▲ 22/19/14

Customer Id: DARDALTX
 Sample No.: TO50001995
 Lab Number: 06015050
 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. 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



13 Jun 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 particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



07 Apr 2023 Diag: Jonathan Hester

NORMAL

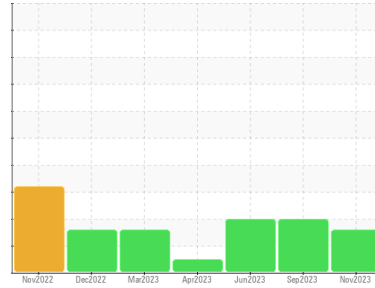


Resample at the next service interval to monitor. We were unable to perform a particle count due to insufficient sample. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area
Paper Cup Machines
 Machine Id
PMC 1003 POS-406 (S/N 1818325-2580-1)
 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 suitable for further service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		TO50001995	TO50001719	TO50001730
Sample Date	Client Info		17 Nov 2023	07 Sep 2023	13 Jun 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	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		3	67	16
Iron	ppm	ASTM D5185m	10	18	10
Chromium	ppm	ASTM D5185m	<1	<1	0
Nickel	ppm	ASTM D5185m	4	<1	6
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	0	<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	100	85	89
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	3	2	3
Phosphorus	ppm	ASTM D5185m	538	523	484
Zinc	ppm	ASTM D5185m	0	0	6
Sulfur	ppm	ASTM D5185m	7508	8512	7955

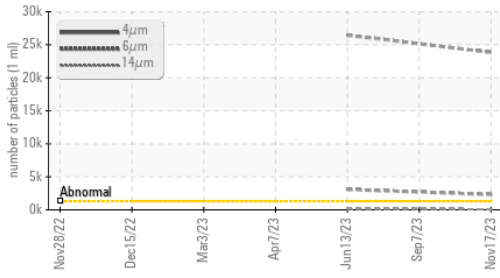
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	2977	3485	2596
Sodium	ppm	ASTM D5185m	<1	2	0
Potassium	ppm	ASTM D5185m	>20	<1	1
Water	%	ASTM D6304	0.029	0.008	0.029
ppm Water	ppm	ASTM D6304	295	80.2	293.5

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	▲ 23836	---	▲ 26447
Particles >6µm	ASTM D7647	>320	▲ 2314	---	▲ 3082
Particles >14µm	ASTM D7647	>80	▲ 83	---	▲ 112
Particles >21µm	ASTM D7647	>20	20	---	▲ 29
Particles >38µm	ASTM D7647	>4	1	---	1
Particles >71µm	ASTM D7647	>3	1	---	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ 22/18/14	---	▲ 22/19/14

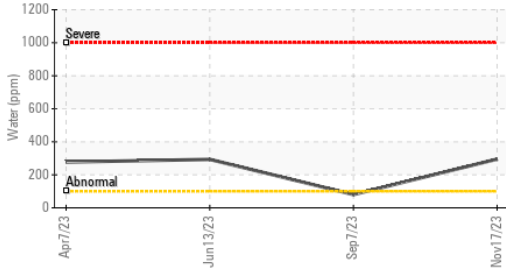
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.68	0.75	0.79

OIL ANALYSIS REPORT

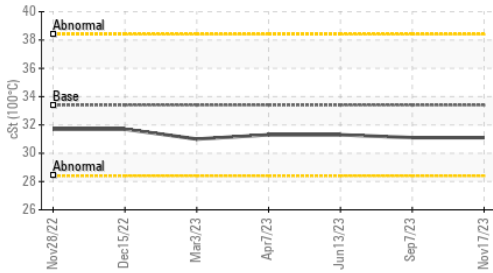
▲ Particle Trend



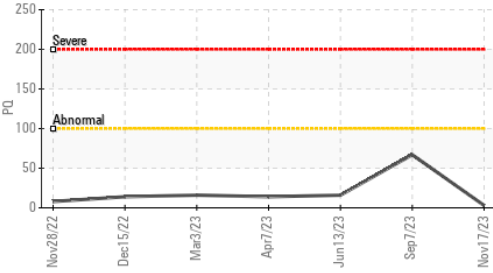
Water (KF)



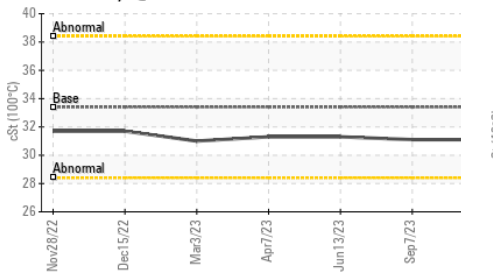
Viscosity @ 100°C



PQ



Viscosity @ 100°C

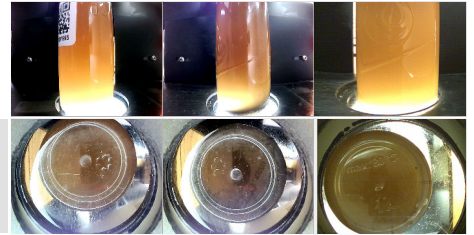


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	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	315	305
Visc @ 100°C	cSt	ASTM D445	33.4	31.1	31.1
Viscosity Index (VI)	Scale	ASTM D2270	145	136	140

SAMPLE IMAGES

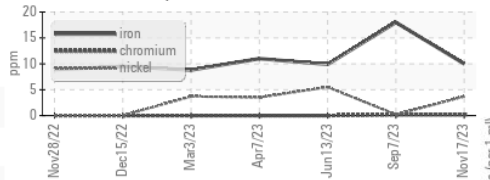
Color



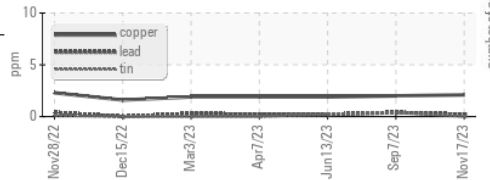
Bottom

GRAPHS

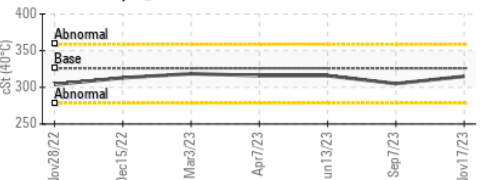
Ferrous Alloys



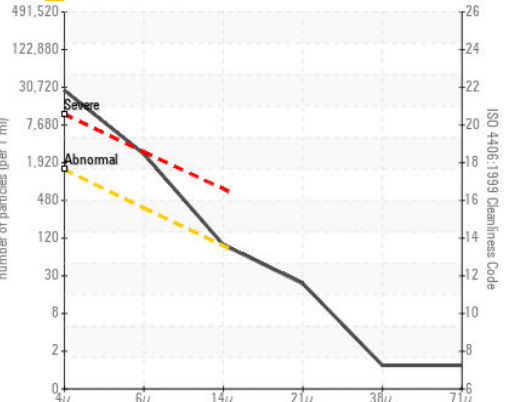
Non-ferrous Metals



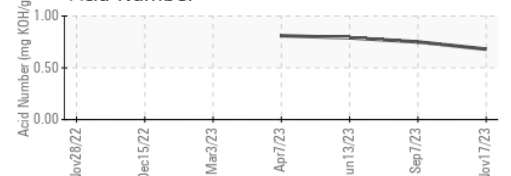
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001995 **Received** : 22 Nov 2023
Lab Number : 06015050 **Diagnosed** : 26 Nov 2023
Unique Number : 10754194 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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 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)