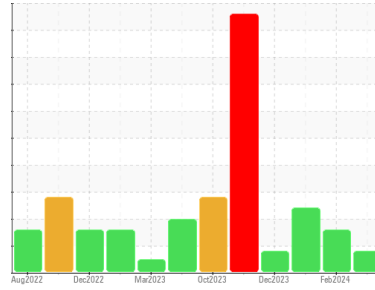


# OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Area

Paper Cup Machines

Machine Id  
**PMC 1003 POS-431 (S/N 193568)**

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of visible silt present in the sample.

### 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	<b>TO50002469</b>	TO50002181	TO50001954
Sample Date	Client Info	<b>07 May 2024</b>	29 Feb 2024	26 Jan 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Filtered
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	<b>25</b>	21	21	
Iron	ppm	ASTM D5185m	<b>14</b>	16	11
Chromium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	0	6
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>88</b>	105	86
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<b>488</b>	464	485
Zinc	ppm	ASTM D5185m	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>7865</b>	6778	6994

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<b>4555</b>	3753	3176
Sodium	ppm	ASTM D5185m	<b>2</b>	0	2
Potassium	ppm	ASTM D5185m	<b>&gt;20</b>	0	0
Water	%	ASTM D6304	<b>0.019</b>	0.011	0.020
ppm Water	ppm	ASTM D6304	<b>198</b>	115	201

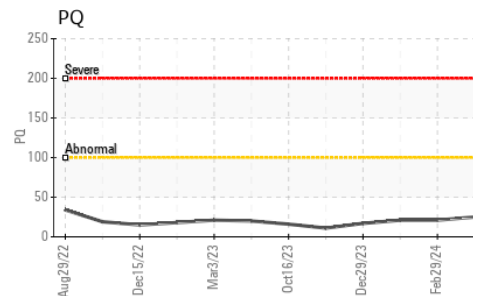
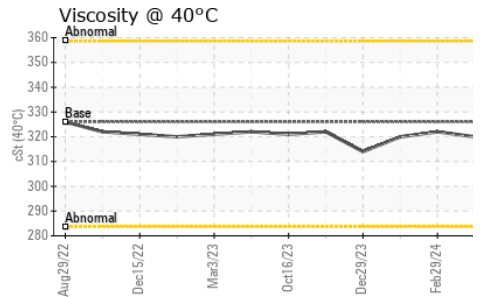
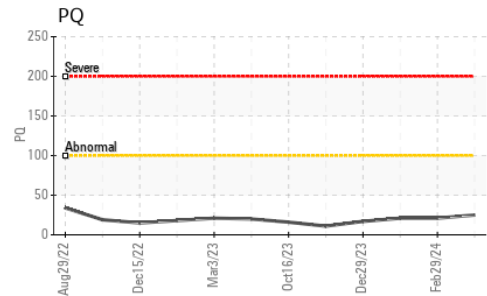
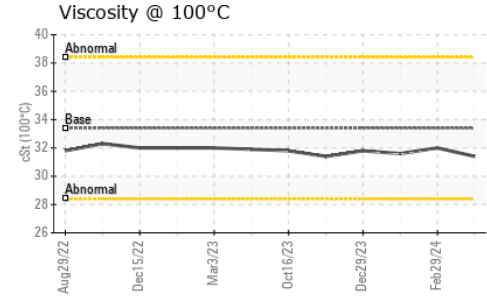
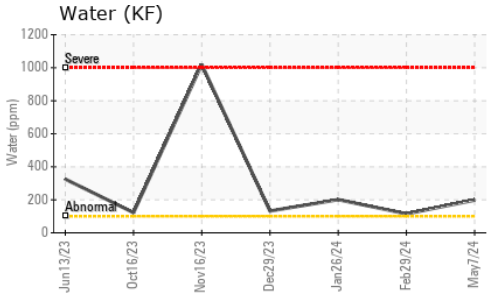
## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>1300	---	▲ 83094	▲ 2871
Particles >6µm	ASTM D7647	>320	---	▲ 8897	▲ 1564
Particles >14µm	ASTM D7647	>80	---	▲ 118	▲ 266
Particles >21µm	ASTM D7647	>20	---	19	▲ 90
Particles >38µm	ASTM D7647	>4	---	1	▲ 14
Particles >71µm	ASTM D7647	>3	---	0	1
Oil Cleanliness	ISO 4406 (c)	>17/15/13	---	▲ 24/20/14	▲ 19/18/15

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.79</b>	0.86	0.93

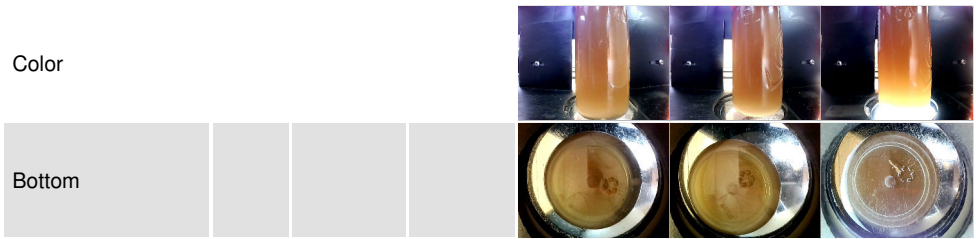
# OIL ANALYSIS REPORT



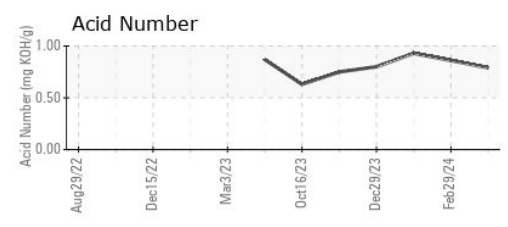
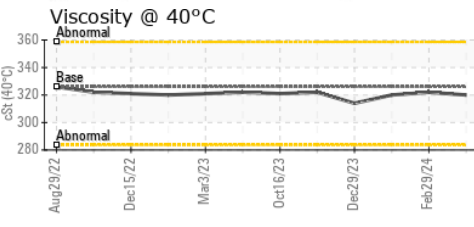
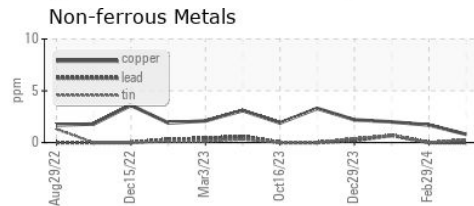
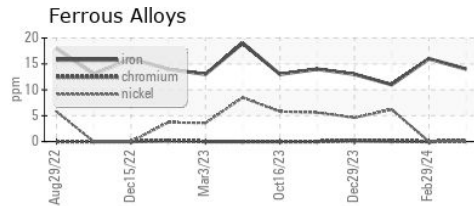
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	MILKY
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	320	322
Visc @ 100°C	cSt	ASTM D445	33.4	31.4	32.0
Viscosity Index (VI)	Scale	ASTM D2270	145	136	138

### SAMPLE IMAGES



### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50002469 **Received** : 14 May 2024  
**Lab Number** : 06178733 **Tested** : 16 May 2024  
**Unique Number** : 11030059 **Diagnosed** : 16 May 2024 - 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)