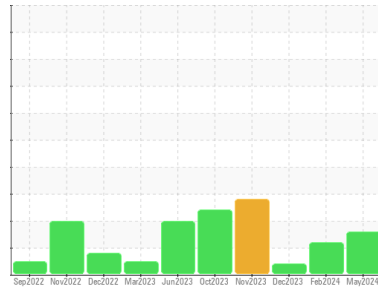


# OIL ANALYSIS REPORT

Sample Rating Trend



**SEDIMENT**



Area  
**Paper Cup Machines**  
 Machine Id  
**PMC 1003 POS-219 (S/N 168437)**  
 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. 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>TO50002255</b>	TO50001913	TO50001979
Sample Date	Client Info			<b>06 May 2024</b>	13 Feb 2024	27 Dec 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	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>46</b>	15	20
Iron	ppm	ASTM D5185m		<b>16</b>	4	5
Chromium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m		<b>9</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>2</b>	<1	2
Lead	ppm	ASTM D5185m		<b>0</b>	<1	0
Copper	ppm	ASTM D5185m		<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

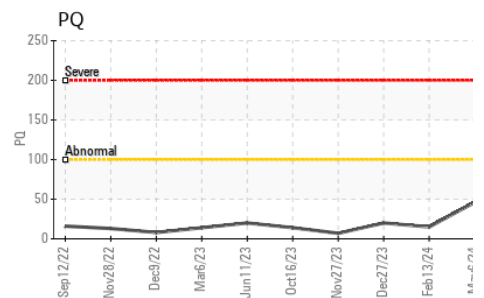
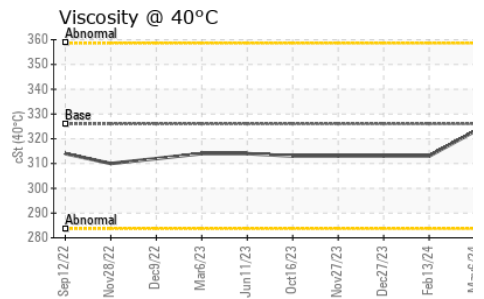
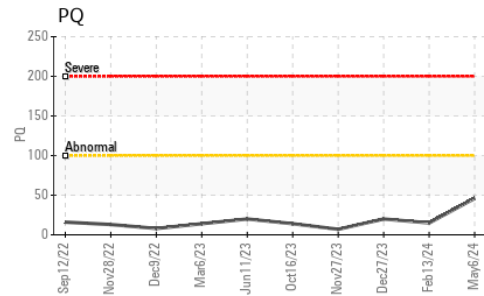
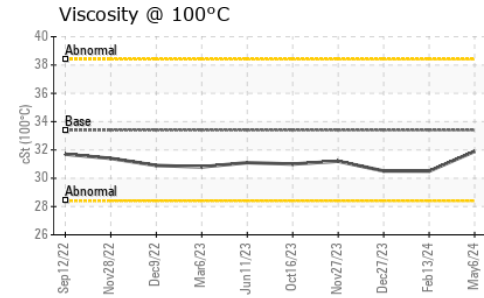
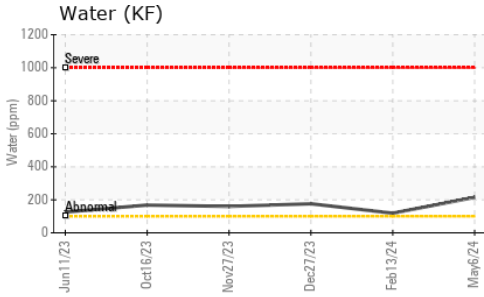
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>114</b>	98	110
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	2	0
Calcium	ppm	ASTM D5185m		<b>3</b>	2	1
Phosphorus	ppm	ASTM D5185m		<b>520</b>	478	532
Zinc	ppm	ASTM D5185m		<b>2</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>7701</b>	6971	8938

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<b>7615</b>	1968	1594
Sodium	ppm	ASTM D5185m		<b>0</b>	1	0
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	<1
Water	%	ASTM D6304		<b>0.021</b>	0.011	0.017
ppm Water	ppm	ASTM D6304		<b>215</b>	119	176

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	---	▲ 35242	---
Particles >6µm		ASTM D7647	>320	---	▲ 4186	---
Particles >14µm		ASTM D7647	>80	---	79	---
Particles >21µm		ASTM D7647	>20	---	12	---
Particles >38µm		ASTM D7647	>4	---	0	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	---	▲ 22/19/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.88</b>	0.76	0.75

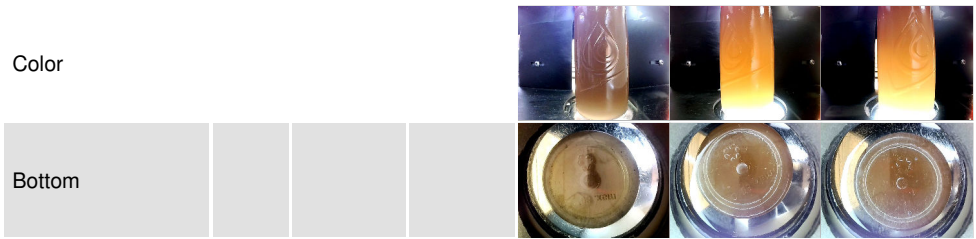
# OIL ANALYSIS REPORT



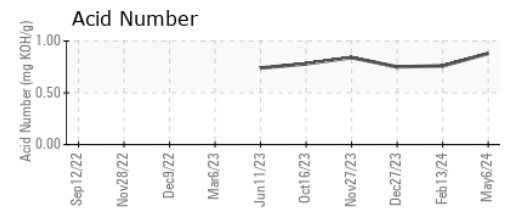
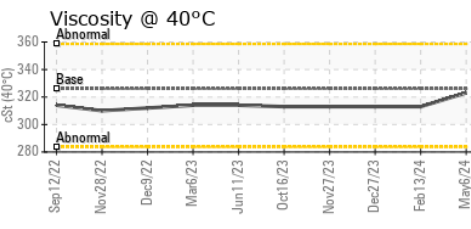
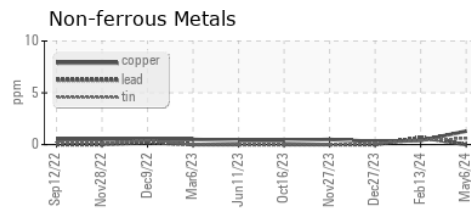
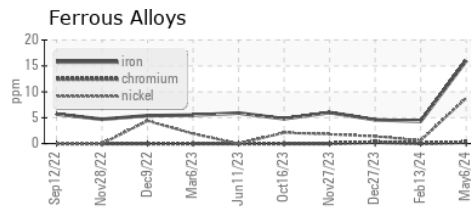
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	● HAZY	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	313.0	313
Visc @ 100°C	cSt	ASTM D445	33.4	30.5	30.51
Viscosity Index (VI)	Scale	ASTM D2270	145	134	134

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50002255 **Received** : 10 May 2024  
**Lab Number** : 06175454 **Tested** : 14 May 2024  
**Unique Number** : 11021507 **Diagnosed** : 14 May 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, PrtCount, VI )

**DART CONTAINER CORPORATION**  
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 DALLAS, TX  
 US 75236  
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 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)