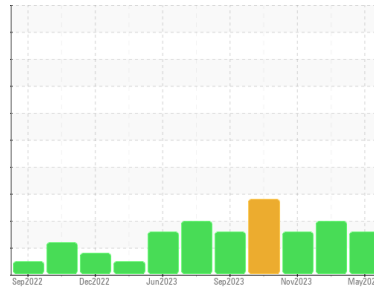


OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Area

Paper Cup Machines

Machine Id

PMC 1003 POS-217 (S/N 159154)

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	TO50002253	TO50002015	TO50001528
Sample Date	Client Info	06 May 2024	29 Jan 2024	16 Nov 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	Not Changd	Not Changd
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	44	20	16
Iron	ppm	24	25	31
Chromium	ppm	<1	<1	<1
Nickel	ppm	8	13	5
Titanium	ppm	<1	<1	<1
Silver	ppm	0	0	0
Aluminum	ppm	2	1	2
Lead	ppm	<1	<1	<1
Copper	ppm	2	1	2
Tin	ppm	<1	1	<1
Vanadium	ppm	<1	0	0
Cadmium	ppm	<1	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	42	51	61
Barium	ppm	0	0	0
Molybdenum	ppm	0	0	<1
Manganese	ppm	<1	<1	<1
Magnesium	ppm	<1	0	<1
Calcium	ppm	4	0	4
Phosphorus	ppm	387	466	527
Zinc	ppm	4	0	0
Sulfur	ppm	5004	5819	7591

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	7158	6155	4460
Sodium	ppm	0	1	<1
Potassium	ppm	2	<1	1
Water	%	0.014	0.019	0.028
ppm Water	ppm	148	191	283

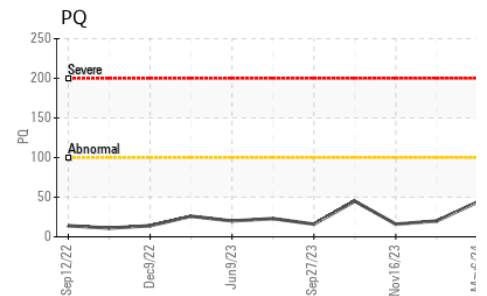
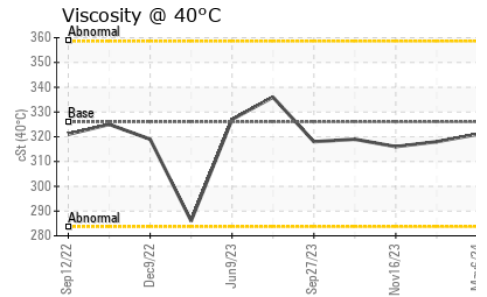
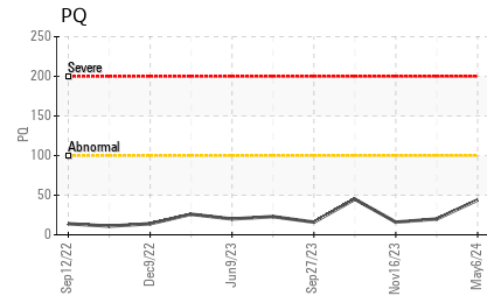
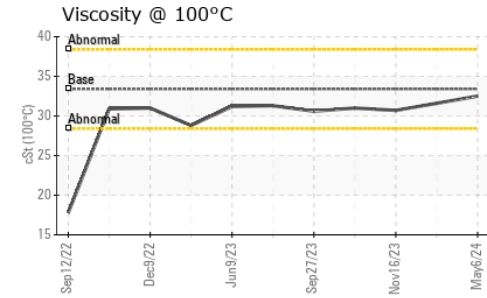
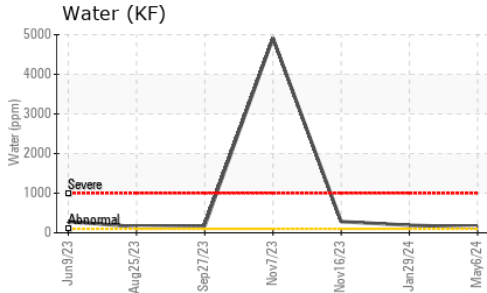
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	---	1009
Particles >6µm	ASTM D7647	>320	---	550
Particles >14µm	ASTM D7647	>80	---	94
Particles >21µm	ASTM D7647	>20	---	32
Particles >38µm	ASTM D7647	>4	---	5
Particles >71µm	ASTM D7647	>3	---	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	---	17/16/14

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.66	0.81	0.65

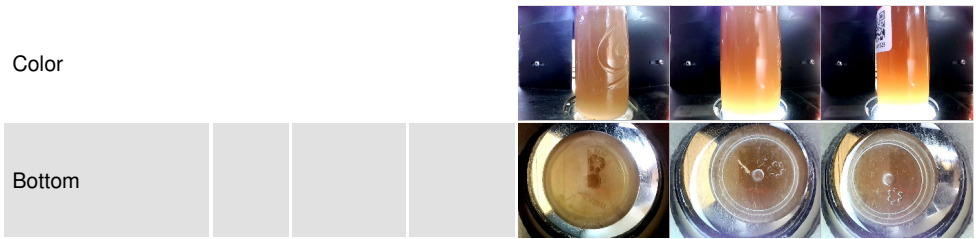
OIL ANALYSIS REPORT



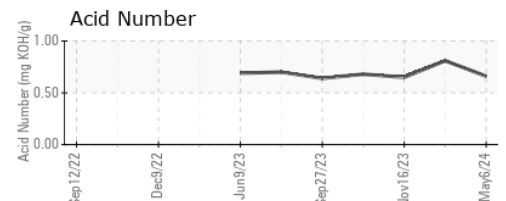
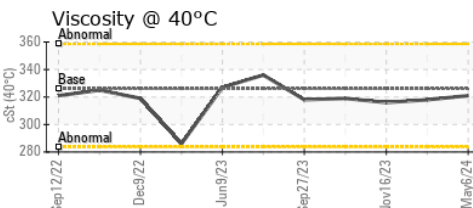
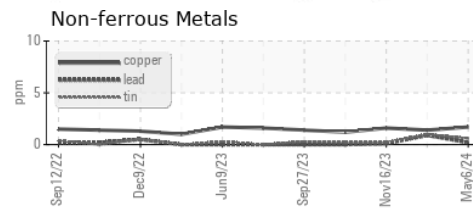
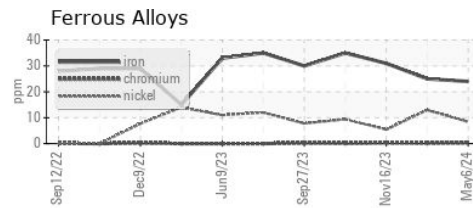
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	NONE	▲ MODER
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	● HAZY	MILKY	● HAZY
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	321	318
Visc @ 100°C	cSt	ASTM D445	33.4	32.5	31.6
Viscosity Index (VI)	Scale	ASTM D2270	145	141	138

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002253 **Received** : 10 May 2024
Lab Number : 06175453 **Tested** : 14 May 2024
Unique Number : 11021506 **Diagnosed** : 14 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)