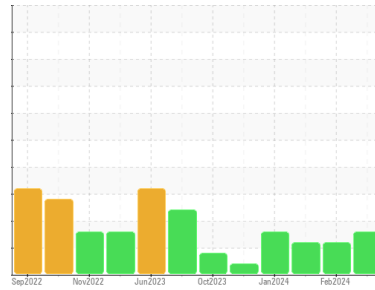


OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Area
Paper Cup Machines
 Machine Id
PMC 1003 POS-215 (S/N 15962)
 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	TO50002249	TO50002212	TO50001525
Sample Date	Client Info	06 May 2024	22 Feb 2024	14 Feb 2024
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	Filtered	Filtered
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	193	15	23
Iron	ppm	70	71	80
Chromium	ppm	<1	<1	0
Nickel	ppm	8	<1	6
Titanium	ppm	<1	0	0
Silver	ppm	0	0	0
Aluminum	ppm	2	2	2
Lead	ppm	<1	<1	0
Copper	ppm	3	1	1
Tin	ppm	<1	0	0
Vanadium	ppm	<1	0	0
Cadmium	ppm	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	31	18	18
Barium	ppm	0	0	0
Molybdenum	ppm	0	0	0
Manganese	ppm	<1	1	<1
Magnesium	ppm	<1	2	0
Calcium	ppm	3	3	0
Phosphorus	ppm	434	450	484
Zinc	ppm	7	5	4
Sulfur	ppm	5376	5515	5754

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	6704	2235	2600
Sodium	ppm	5	8	8
Potassium	ppm	2	1	0
Water	%	0.022	0.018	0.014
ppm Water	ppm	222	181	143

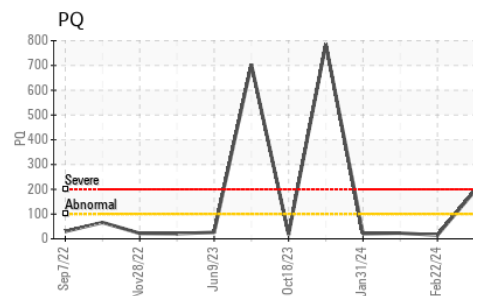
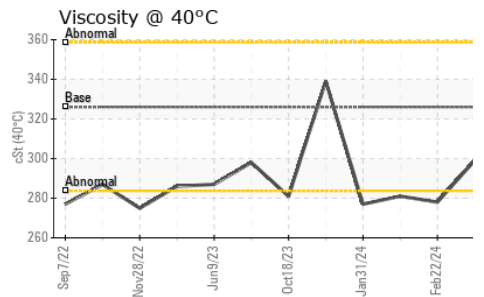
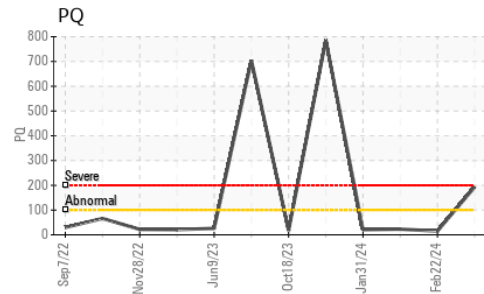
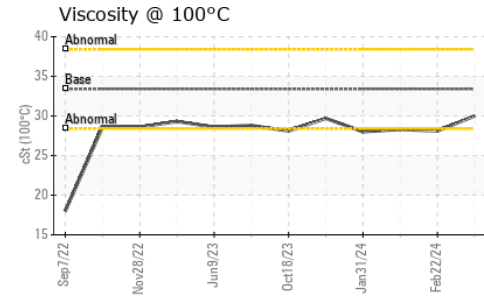
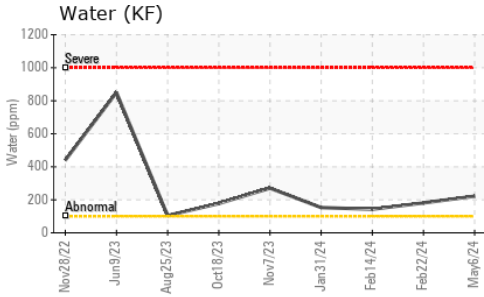
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	---	▲ 24057
Particles >6µm	ASTM D7647	>320	---	▲ 1625
Particles >14µm	ASTM D7647	>80	---	37
Particles >21µm	ASTM D7647	>20	---	6
Particles >38µm	ASTM D7647	>4	---	0
Particles >71µm	ASTM D7647	>3	---	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	---	▲ 22/18/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.76	0.75	0.70

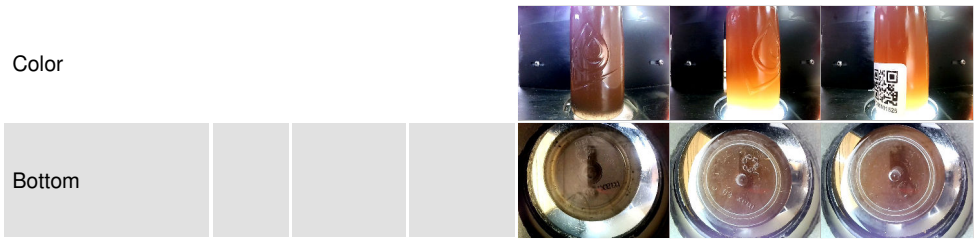
OIL ANALYSIS REPORT



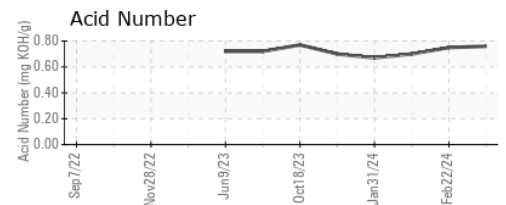
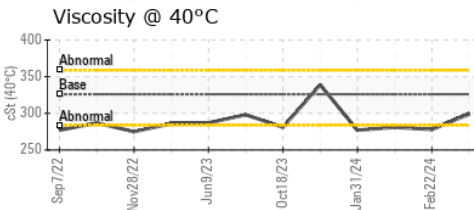
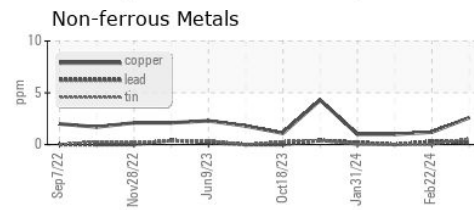
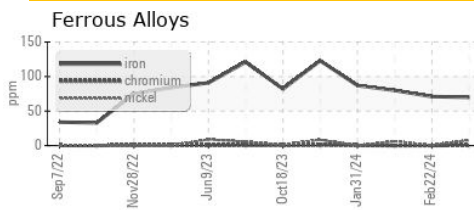
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	● 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	299	278
Visc @ 100°C	cSt	ASTM D445	33.4	30.0	28.1
Viscosity Index (VI)	Scale	ASTM D2270	145	136	134

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002249
Lab Number : 06175458
Unique Number : 11021511
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)
Received : 10 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Don Baldrige

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)