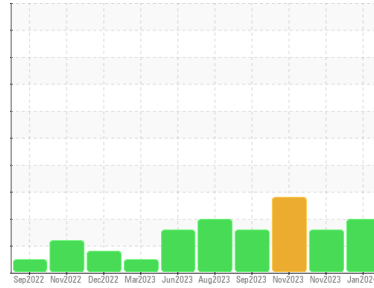


OIL ANALYSIS REPORT

Sample Rating Trend



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**
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
 All component wear rates are normal.
- Contamination**
 There is a moderate 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	TO50002015	TO50001528	TO50001957
Sample Date	Client Info	29 Jan 2024	16 Nov 2023	07 Nov 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Not Chngd	Not Chngd	N/A
Sample Status		ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	20	16	45	
Iron	ppm	ASTM D5185m	25	31	35
Chromium	ppm	ASTM D5185m	<1	<1	<1
Nickel	ppm	ASTM D5185m	13	5	9
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	1	2	2
Lead	ppm	ASTM D5185m	<1	<1	0
Copper	ppm	ASTM D5185m	1	2	1
Tin	ppm	ASTM D5185m	1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	51	61	55
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	0
Calcium	ppm	ASTM D5185m	0	4	0
Phosphorus	ppm	ASTM D5185m	466	527	473
Zinc	ppm	ASTM D5185m	0	0	0
Sulfur	ppm	ASTM D5185m	5819	7591	6580

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	6155	4460	4431	
Sodium	ppm	ASTM D5185m	1	<1	2	
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Water	%	ASTM D6304	0.019	0.028	▲ 0.492	
ppm Water	ppm	ASTM D6304	191	283	▲ 4915	

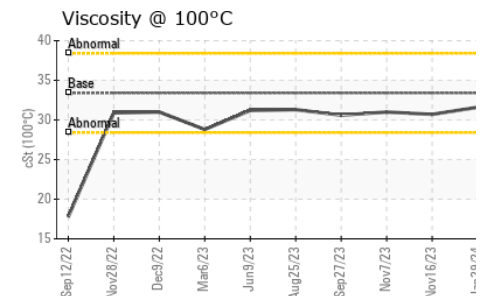
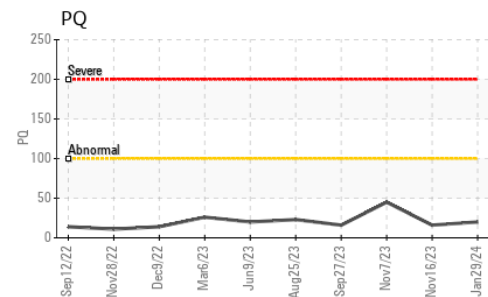
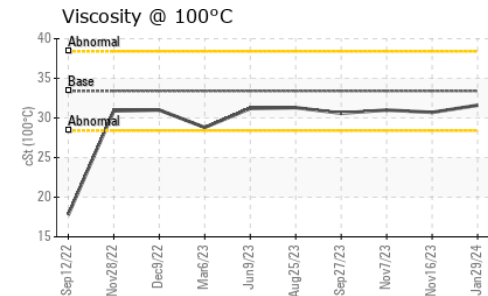
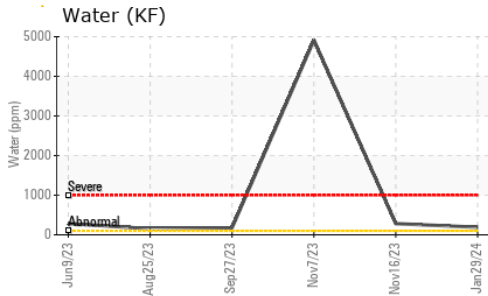
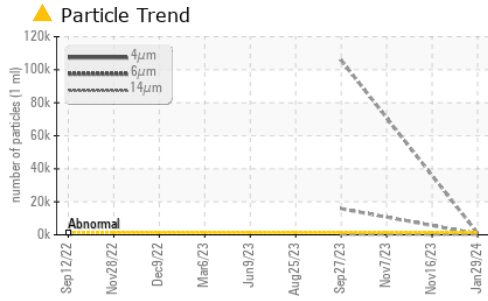
FLUID CLEANLINESS

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	ASTM D8045	0.81	0.65	0.68

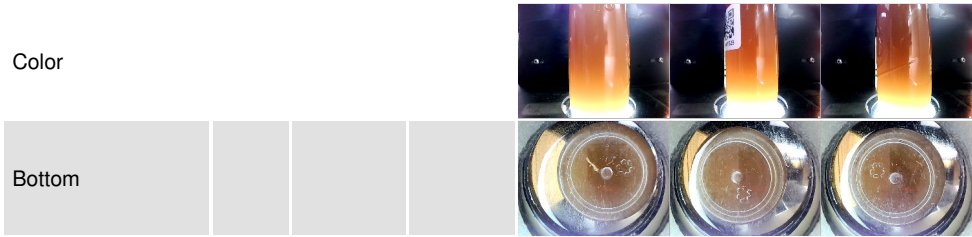
OIL ANALYSIS REPORT



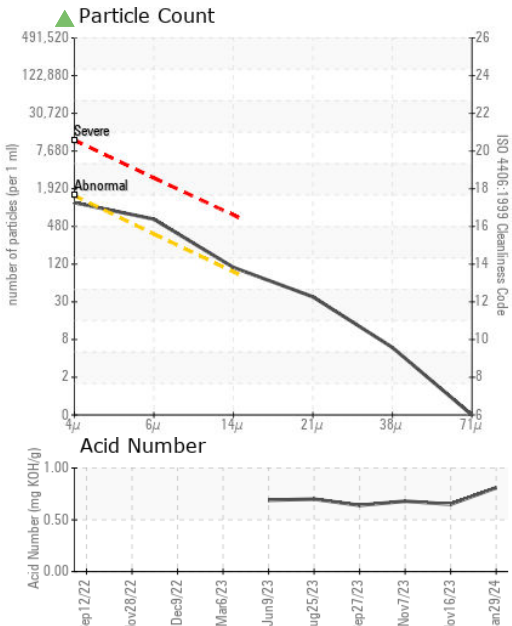
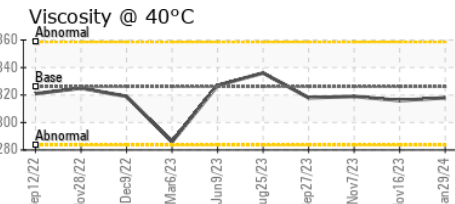
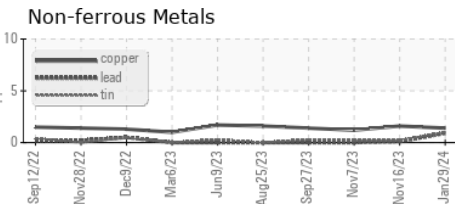
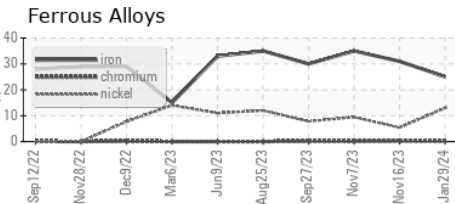
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	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	318	316
Visc @ 100°C	cSt	ASTM D445	33.4	31.6	30.7
Viscosity Index (VI)	Scale	ASTM D2270	145	138	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. : TO50002015 **Received** : 01 Feb 2024
Lab Number : 06076842 **Tested** : 07 Feb 2024
Unique Number : 10858933 **Diagnosed** : 07 Feb 2024 - Jonathan Hester
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)