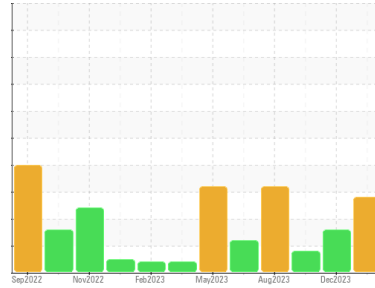


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
Paper Cup Machines
 Machine Id
PMC 1003 POS-141 (S/N 180447)
 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.

Wear

All component wear rates are normal.

Contamination

There is a high 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	TO50001952	TO50001983	TO50001989
Sample Date	Client Info	26 Jan 2024	28 Dec 2023	27 Nov 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Filtered	Filtered	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	17	15	28
Iron	ppm	12	12	19
Chromium	ppm	<1	<1	0
Nickel	ppm	7	2	7
Titanium	ppm	<1	<1	<1
Silver	ppm	0	0	0
Aluminum	ppm	<1	1	1
Lead	ppm	<1	<1	0
Copper	ppm	2	2	2
Tin	ppm	<1	<1	0
Vanadium	ppm	0	0	0
Cadmium	ppm	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	46	47	44
Barium	ppm	0	1	0
Molybdenum	ppm	0	<1	0
Manganese	ppm	<1	<1	0
Magnesium	ppm	0	<1	<1
Calcium	ppm	0	9	3
Phosphorus	ppm	456	472	428
Zinc	ppm	0	0	0
Sulfur	ppm	5632	6453	5470

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	3519	1995	5625
Sodium	ppm	1	0	0
Potassium	ppm	<1	<1	2
Water	%	0.020	0.016	0.013
ppm Water	ppm	204	162	139

FLUID CLEANLINESS

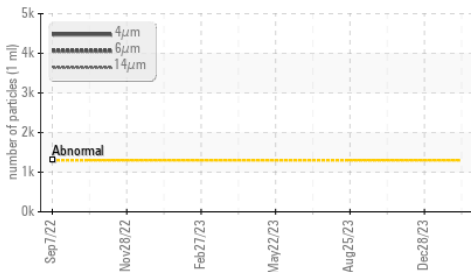
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	---	---
Particles >6µm	ASTM D7647	>320	---	---
Particles >14µm	ASTM D7647	>80	---	---
Particles >21µm	ASTM D7647	>20	---	---
Particles >38µm	ASTM D7647	>4	---	---
Particles >71µm	ASTM D7647	>3	---	---
Oil Cleanliness	ISO 4406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

FLUID DEGRADATION

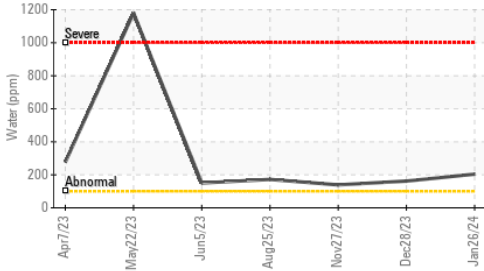
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.82	0.64	0.67

OIL ANALYSIS REPORT

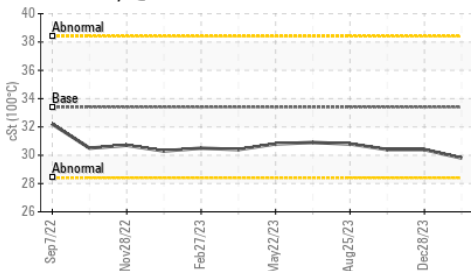
▲ Particle Trend



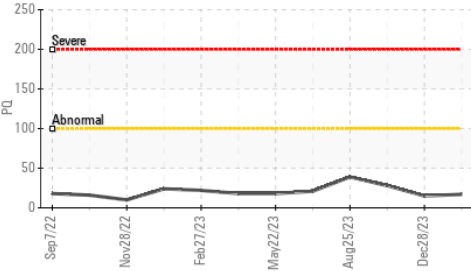
Water (KF)



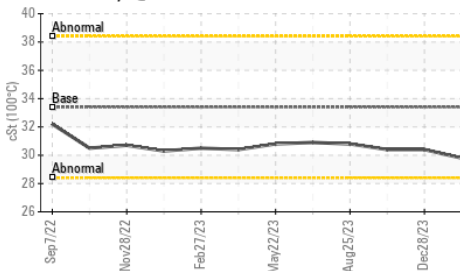
Viscosity @ 100°C



PQ



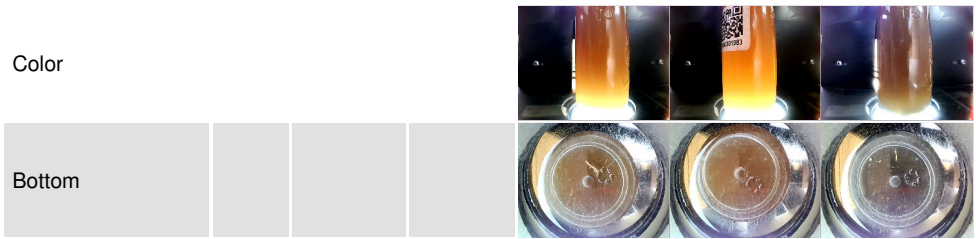
Viscosity @ 100°C



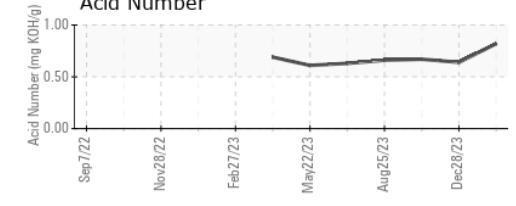
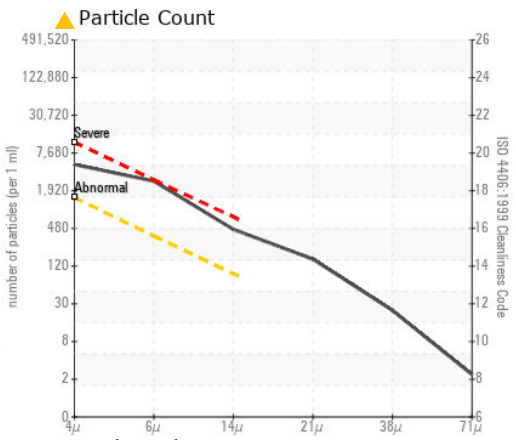
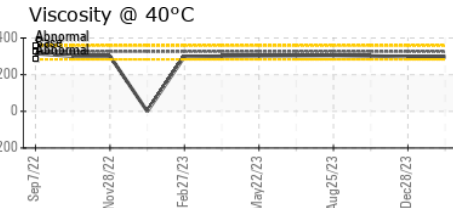
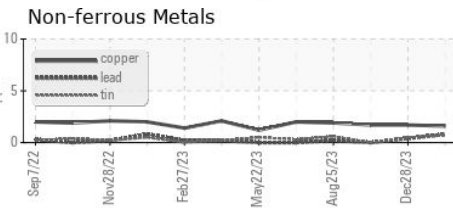
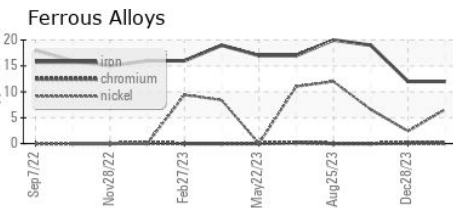
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	▲ MODER
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	297	298	302
Visc @ 100°C	cSt	ASTM D445	33.4	29.8	30.4	30.4
Viscosity Index (VI)	Scale	ASTM D2270	145	136	139	137

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001952 **Received** : 01 Feb 2024
Lab Number : 06076838 **Tested** : 07 Feb 2024
Unique Number : 10858929 **Diagnosed** : 07 Feb 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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 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)