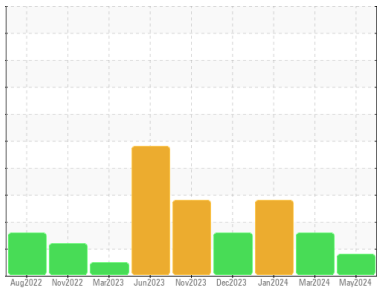
OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT

Area
Paper Cup Machines
Machine Id
PMC 1003 POS-421 (S/N 189465)
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
Appearance is hazy. 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		**TO50002468**	TO50002183	TO50001953
Sample Date		Client Info		**07 May 2024**	13 Mar 2024	27 Jan 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	Filtered
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**31**	18	21
Iron	ppm	ASTM D5185m		**13**	12	14
Chromium	ppm	ASTM D5185m		**<1**	<1	<1
Nickel	ppm	ASTM D5185m		**0**	9	9
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m		**<1**	2	1
Lead	ppm	ASTM D5185m		**0**	2	<1
Copper	ppm	ASTM D5185m		**2**	2	4
Tin	ppm	ASTM D5185m		**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**67**	48	66
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**<1**	2	23
Phosphorus	ppm	ASTM D5185m		**453**	414	466
Zinc	ppm	ASTM D5185m		**0**	0	16
Sulfur	ppm	ASTM D5185m		**7029**	6601	6471

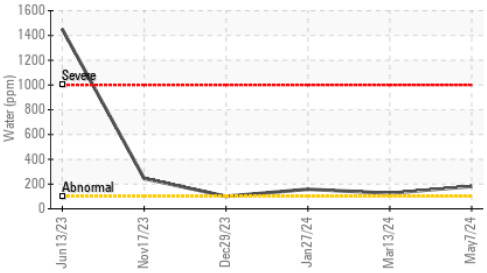
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**6425**	4118	4645
Sodium	ppm	ASTM D5185m		**<1**	2	2
Potassium	ppm	ASTM D5185m	>20	**0**	1	0
Water	%	ASTM D6304		**0.018**	0.012	0.015
ppm Water	ppm	ASTM D6304		**181**	126	158

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	**---**	---	▲ 3097
Particles >6µm		ASTM D7647	>320	**---**	---	▲ 1687
Particles >14µm		ASTM D7647	>80	**---**	---	▲ 287
Particles >21µm		ASTM D7647	>20	**---**	---	▲ 97
Particles >38µm		ASTM D7647	>4	**---**	---	▲ 15
Particles >71µm		ASTM D7647	>3	**---**	---	▲ 2
Oil Cleanliness		ISO 4406 (c)	>17/15/13	**---**	---	▲ 19/18/15

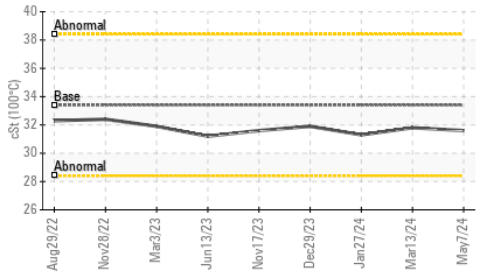
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.69**	0.70	0.88

OIL ANALYSIS REPORT

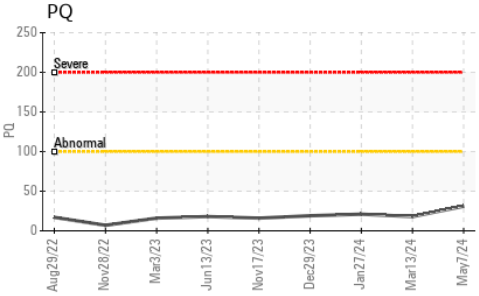
Water (KF)



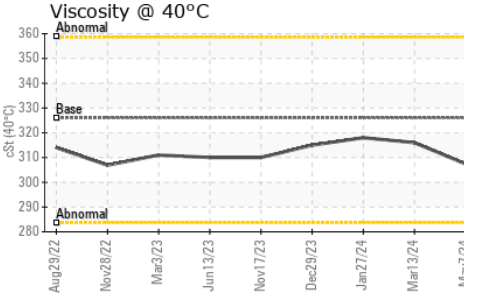
Viscosity @ 100°C



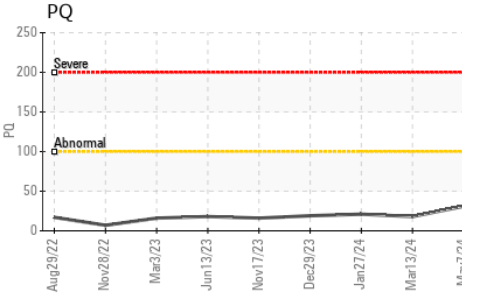
PQ



Viscosity @ 40°C



PQ



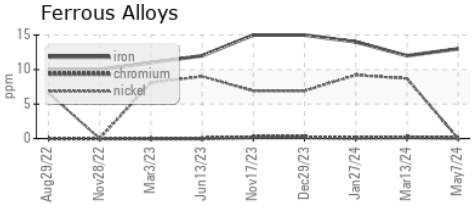
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	▲ **MODER**	▲ MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**HAZY**	● HAZY	MILKY
Odor	scalar	*Visual	NORML	**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	**307.4**	316	318
Visc @ 100°C	cSt	ASTM D445	33.4	**31.6**	31.8	31.3
Viscosity Index (VI)	Scale	ASTM D2270	145	**142**	139	136

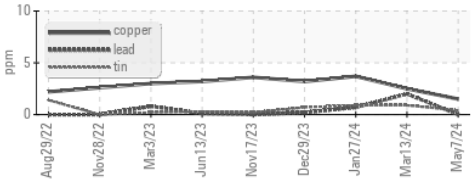
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

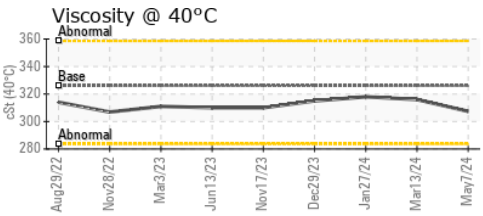
Ferrous Alloys



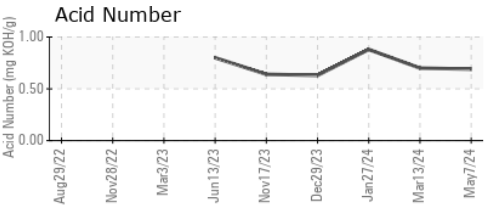
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002468
Lab Number : 06178732
Unique Number : 11030058
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

Received : 14 May 2024
Tested : 20 May 2024
Diagnosed : 20 May 2024 - Don Baldridge

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)

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Report Id: DARDALTX [WUSCAR] 06178732 (Generated: 05/20/2024 10:05:40) Rev: 1

Submitted By: YON PALOMINO