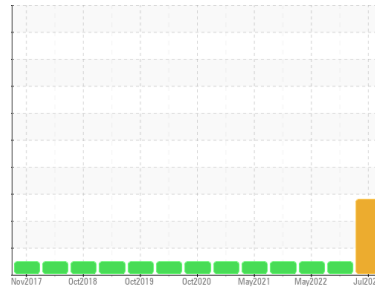




PROBLEM SUMMARY

Area
MAIN PLANT
 Machine Id
SULLAIR CMP-CMP1 (S/N 003-128398)
 Component
Compressor
 Fluid
ULTRACHEM PALEXTRA 44 (5 QTS)

Sample Rating Trend

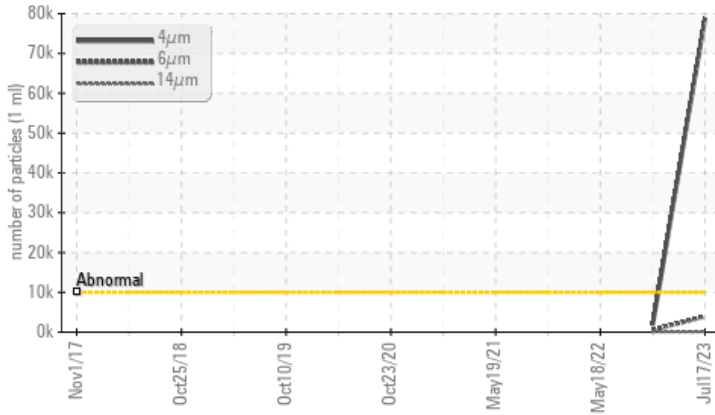


ADDITIVES

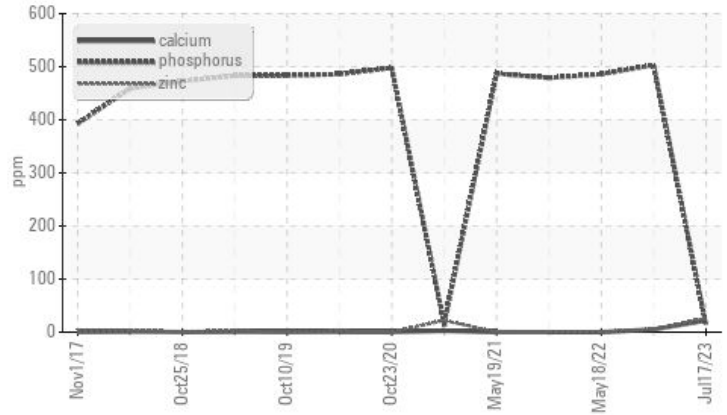


COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Additives



RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Barium	ppm	ASTM D5185m	0.3	▲ 167	16	14
Calcium	ppm	ASTM D5185m	0	▲ 22	5	0
Phosphorus	ppm	ASTM D5185m	689	▲ 14	503	486
Zinc	ppm	ASTM D5185m	0	▲ 26	5	0
Particles >4µm		ASTM D7647	>10000	▲ 78821	1777	---
Particles >6µm		ASTM D7647	>2500	▲ 3972	557	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 23/19/14	18/16/13	---

Customer Id: LANNEW
 Sample No.: WC0830450
 Lab Number: 05903245
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

04 Dec 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



18 May 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



02 Nov 2021 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

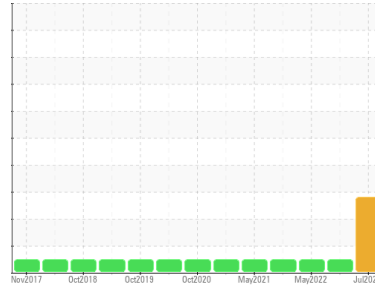
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



Area
MAIN PLANT
 Machine Id
SULLAIR CMP-CMP1 (S/N 003-128398)
 Component
Compressor
 Fluid
ULTRACHEM PALEXTRA 44 (5 QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0830450	WC0753848	WC0696320
Sample Date	Client Info		17 Jul 2023	04 Dec 2022	18 May 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	8	<1	<1
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >25	2	0	<1
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >50	5	<1	<1
Tin	ppm	ASTM D5185m >15	0	<1	<1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	1	6	<1
Barium	ppm	ASTM D5185m 0.3	▲ 167	16	14
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m 0.3	1	0	0
Magnesium	ppm	ASTM D5185m 0.4	2	3	0
Calcium	ppm	ASTM D5185m 0	▲ 22	5	0
Phosphorus	ppm	ASTM D5185m 689	▲ 14	503	486
Zinc	ppm	ASTM D5185m 0	▲ 26	5	0
Sulfur	ppm	ASTM D5185m 1237	440	357	249

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	4	2
Sodium	ppm	ASTM D5185m	101	28	28
Potassium	ppm	ASTM D5185m >20	5	0	<1

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 78821	1777	---
Particles >6µm	ASTM D7647	>2500	▲ 3972	557	---
Particles >14µm	ASTM D7647	>320	119	69	---
Particles >21µm	ASTM D7647	>80	35	17	---
Particles >38µm	ASTM D7647	>20	3	1	---
Particles >71µm	ASTM D7647	>4	0	0	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 23/19/14	18/16/13	---

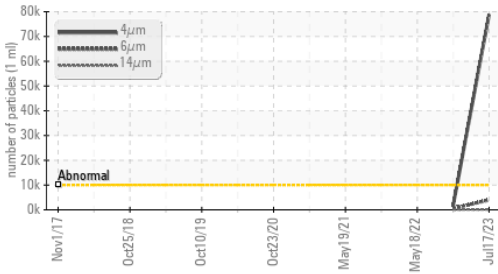
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.135	1.24	0.27	0.29

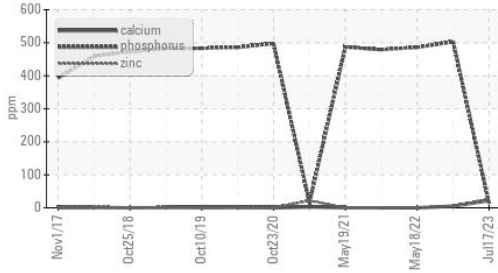


OIL ANALYSIS REPORT

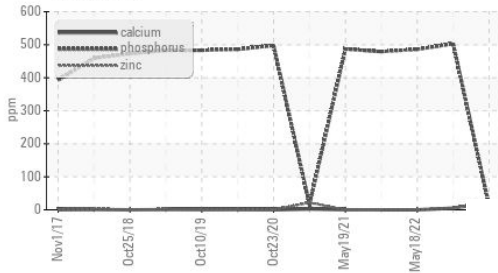
Particle Trend



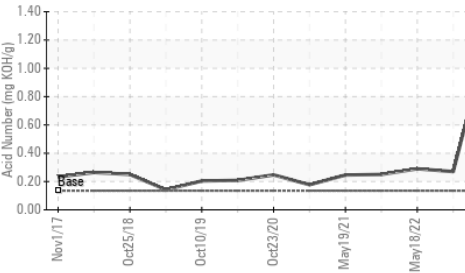
Additives



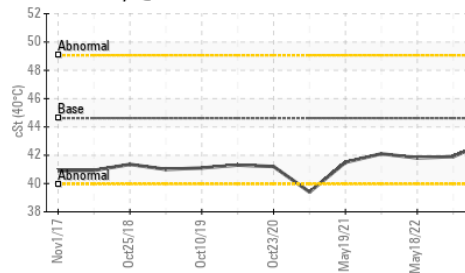
Additives



Acid Number



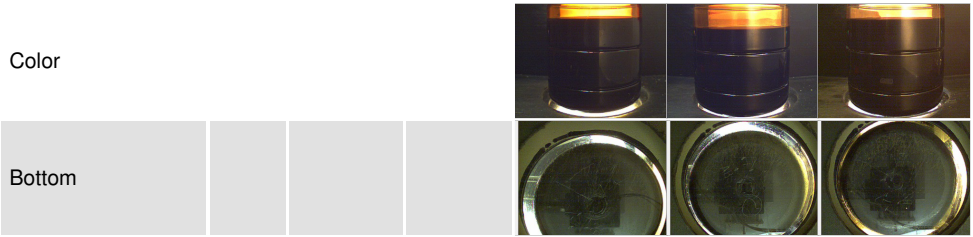
Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

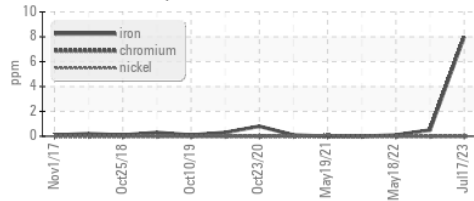
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.62	43.0	41.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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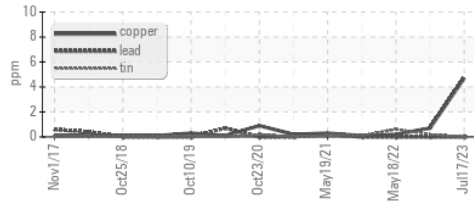


GRAPHS

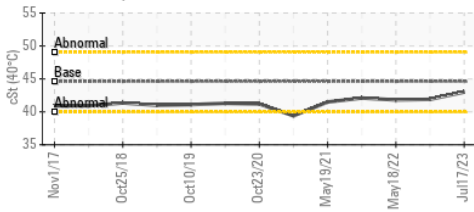
Ferrous Alloys



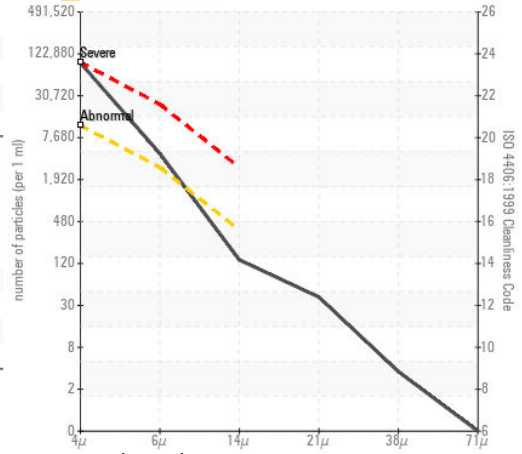
Non-ferrous Metals



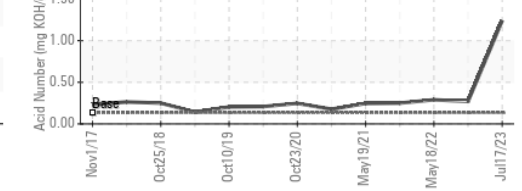
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0830450 **Received** : 20 Jul 2023
Lab Number : 05903245 **Diagnosed** : 27 Jul 2023
Unique Number : 10564601 **Diagnostician** : Jonathan Hester
Test Package : PLANT

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Certificate L2367
 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)