WEAR CHECK

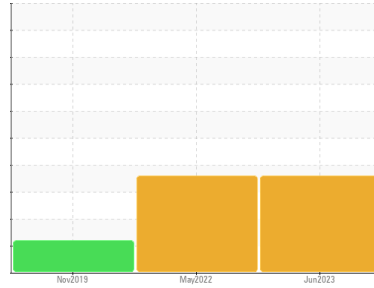## PROBLEM SUMMARY

DEGRADATION

Area
NOT GIVEN [PM3-2266125]
Machine Id
SULLAIR 201704110046 - NEVADA CEMENT
Component
Compressor

Nov2019   May2022   Jun2023

COMPONENT CONDITION SUMMARY

Acid Number
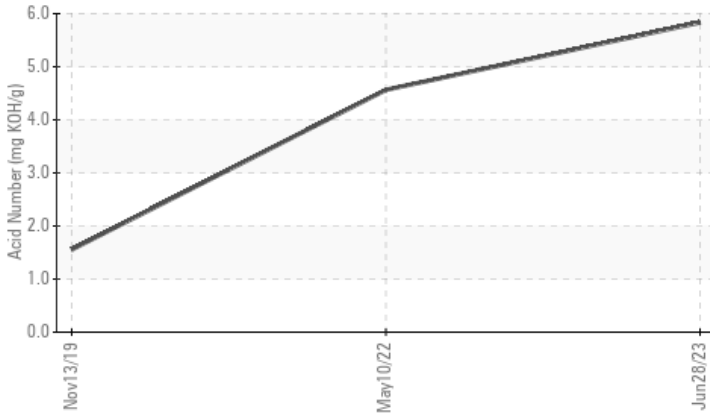
Viscosity @ 40°C
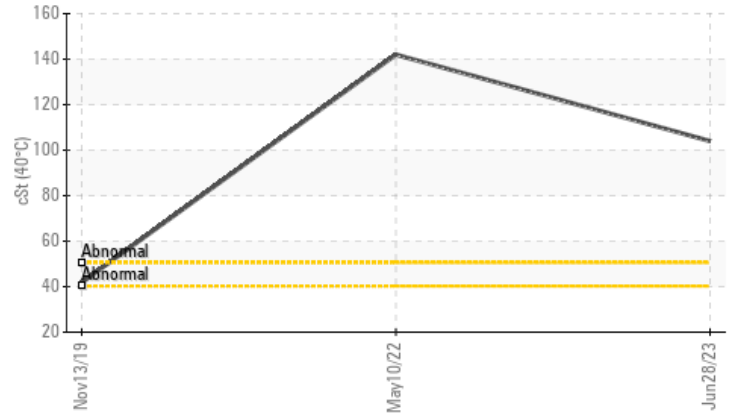
RECOMMENDATION

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	SEVERE	ABNORMAL
Acid Number (AN)	mg KOH/g	ASTM D8045	⬢ 5.834	⬢ 4.564	▲ 1.556
Visc @ 40°C	cSt	ASTM D445	▲ 104	▲ 142	41.8

Customer Id: UCCISSAC
Sample No.: UCH05902408
Lab Number: 05902408
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check For Overheating	---	---	?	We advise that you check for a possible overheat condition.

HISTORICAL DIAGNOSIS

10 May 2022 Diag: Jonathan Hester

DEGRADATION

view report

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

13 Nov 2019 Diag: Jonathan Hester

DEGRADATION

view report

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is at the top-end of the recommended limit.
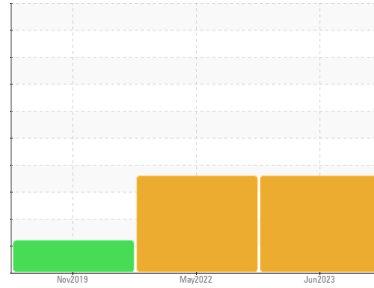
OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area
NOT GIVEN [PM3-2266125]
Machine Id
SULLAIR 201704110046 - NEVADA CEMENT
Component
Compressor

DIAGNOSIS

🛑 Recommendation
We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

🛑 Fluid Condition
The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		**UCH05902408**	UCH05564674	UCH04864881
Sample Date	Client Info		**28 Jun 2023**	10 May 2022	13 Nov 2019
Machine Age	hrs	Client Info	**0**	29328	9129
Oil Age	hrs	Client Info	**0**	7509	2769
Oil Changed		Client Info	**N/A**	Not Changd	Not Changd
Sample Status			**SEVERE**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**2**	2	4
Chromium	ppm	ASTM D5185m	>10	**0**	0	<1
Nickel	ppm	ASTM D5185m		**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	3	0
Aluminum	ppm	ASTM D5185m	>25	**0**	<1	<1
Lead	ppm	ASTM D5185m	>25	**0**	1	1
Copper	ppm	ASTM D5185m	>50	**4**	2	1
Tin	ppm	ASTM D5185m	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	4	5
Barium	ppm	ASTM D5185m		**1123**	749	578
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**<1**	<1	2
Magnesium	ppm	ASTM D5185m		**4**	3	0
Calcium	ppm	ASTM D5185m		**4**	4	8
Phosphorus	ppm	ASTM D5185m		**12**	17	1
Zinc	ppm	ASTM D5185m		**15**	11	33
Sulfur	ppm	ASTM D5185m		**900**	512	111

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**2**	2	4
Sodium	ppm	ASTM D5185m		**185**	128	72
Potassium	ppm	ASTM D5185m	>20	**6**	6	1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		🔴 **5.834**	🔴 4.564	⚠️ 1.556

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

Acid Number
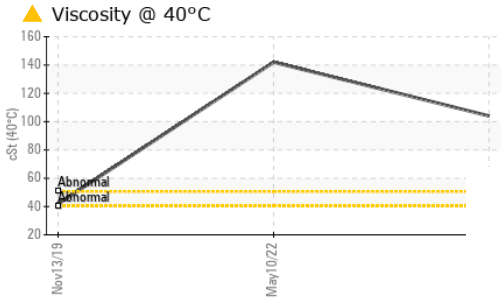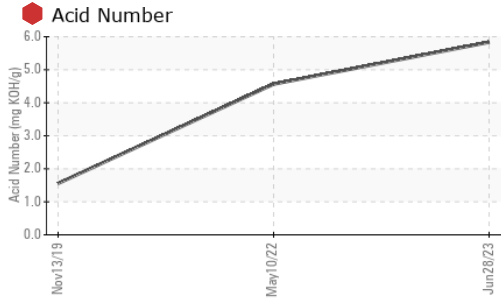
FLUID PROPERTIES

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445		▲ **104**	▲ 142	41.8

SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
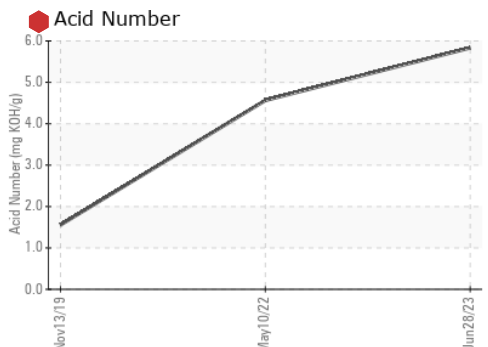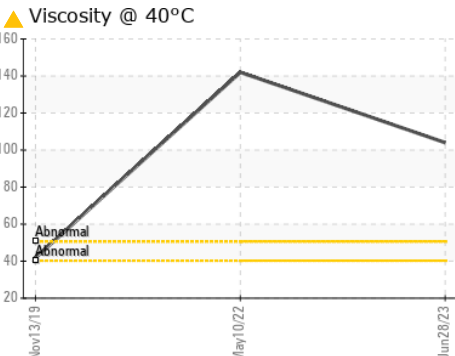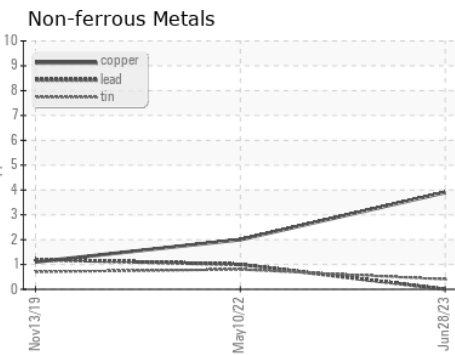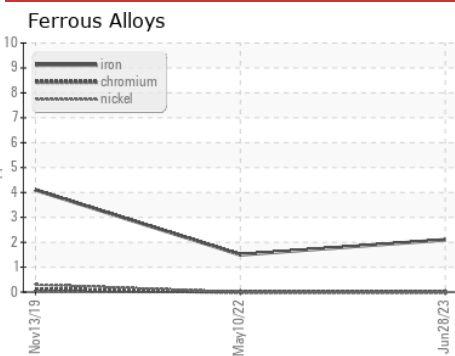
Viscosity @ 40°C

GRAPHS

Ferrous Alloys

iron
chromium
nickel

Non-ferrous Metals

copper
lead
tin

Viscosity @ 40°C

Acid Number

CISCO AIR SYSTEMS
214 27TH ST
SACRAMENTO, CA
US 95816
Contact: BARRY FRKOVICH
barryfrkovich@ciscoair.com
T: (916)444-2525
F: x:

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)