PROBLEM SUMMARY
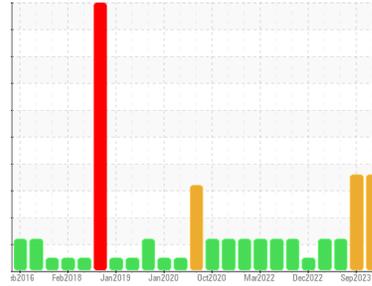
Sample Rating Trend
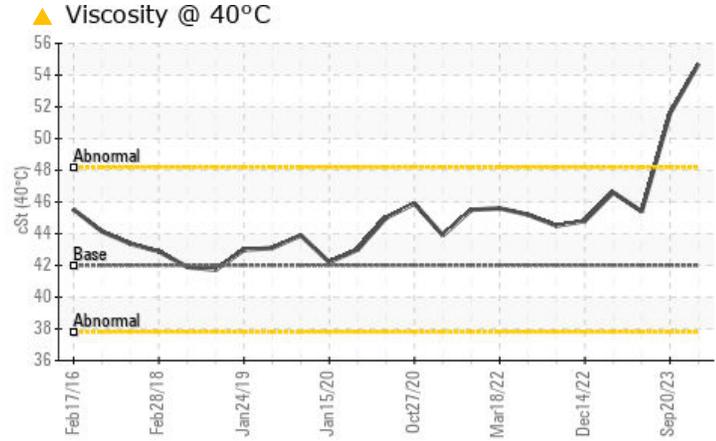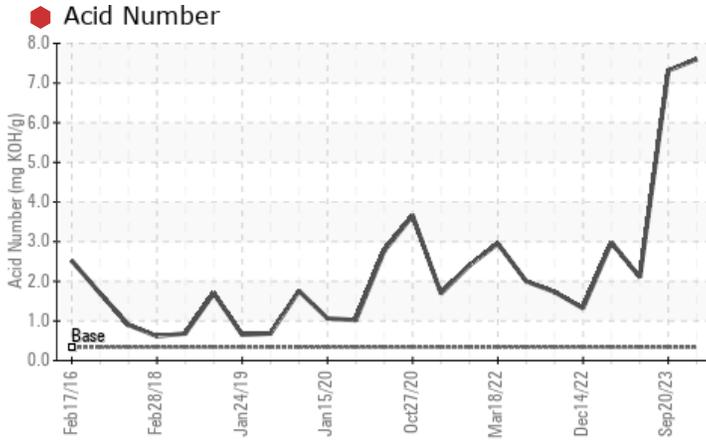

DEGRADATION

Area
ULTRACHEM 32/46 [57983]
Machine Id
ATLAS COPCO CAI313522 - OMAHA TRACK
Component
Compressor

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	0.337	⬡ **7.601**	⬡ 7.315	▲ 2.10
Visc @ 40°C	cSt	ASTM D445	42.0	▲ **54.7**	▲ 51.6	45.4

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

20 Sep 2023 Diag: Jonathan Hester

DEGRADATION

view report

We advise that you check for a possible overheat condition. Oil and filter change at the time of sampling has been noted. 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.

20 Jun 2023 Diag: Don Baldridge

DEGRADATION

view report

We recommend that you drain the oil from the component if this has not already been done. 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 above the recommended limit. The oil is no longer serviceable.

21 Mar 2023 Diag: Doug Bogart

DEGRADATION

view report

Oil and filter change at the time of sampling has been noted. 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 above the recommended limit. The oil is no longer serviceable.
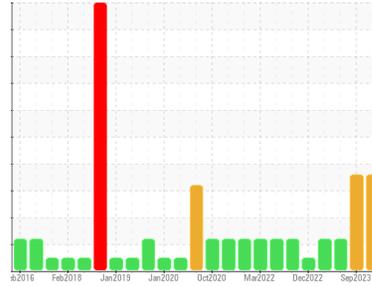
Area
ULTRACHEM 32/46 [57983]
Machine Id
ATLAS COPCO CAI313522 - OMAHA TRACK
Component
Compressor

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 well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		**UCH06061320**	UCH05978378	UCH05889143
Sample Date	Client Info		**19 Dec 2023**	20 Sep 2023	20 Jun 2023
Machine Age	hrs	Client Info	**23323**	21488	9378
Oil Age	hrs	Client Info	**5567**	3732	1622
Oil Changed		Client Info	**Not Changd**	Changed	Not Changd
Sample Status			**SEVERE**	SEVERE	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**2**	0	0
Chromium	ppm	ASTM D5185m	>5	**<1**	0	0
Nickel	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>15	**2**	0	0
Lead	ppm	ASTM D5185m	>65	**<1**	0	0
Copper	ppm	ASTM D5185m	>65	**19**	0	2
Tin	ppm	ASTM D5185m	>10	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	**0**	0	0
Barium	ppm	ASTM D5185m	0.3	**0**	29	4
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	0
Manganese	ppm	ASTM D5185m	0	**0**	0	0
Magnesium	ppm	ASTM D5185m	0	**0**	3	<1
Calcium	ppm	ASTM D5185m	0.5	**<1**	0	<1
Phosphorus	ppm	ASTM D5185m	536	**279**	310	190
Zinc	ppm	ASTM D5185m	0.2	**80**	0	39
Sulfur	ppm	ASTM D5185m	649	**207**	323	205

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	**2**	2	<1
Sodium	ppm	ASTM D5185m		**8**	5	8
Potassium	ppm	ASTM D5185m	>20	**2**	0	2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.337	🛑 **7.601**	🔴 7.315	⚠ 2.10

OIL ANALYSIS REPORT

Acid Number

Viscosity @ 40°C
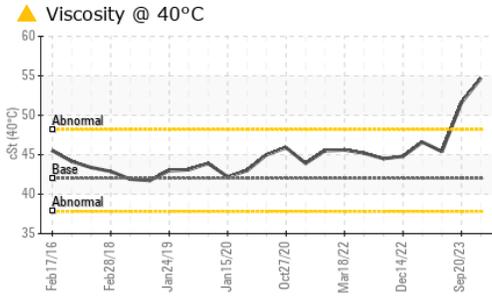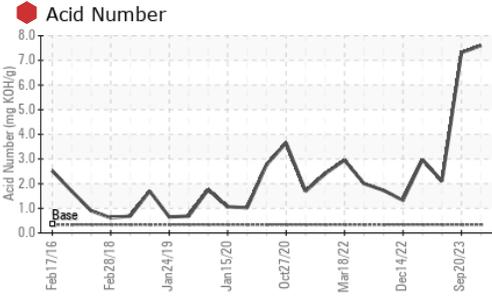
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	LIGHT
Sand/Dirt	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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	42.0	▲ **54.7**	▲ 51.6	45.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
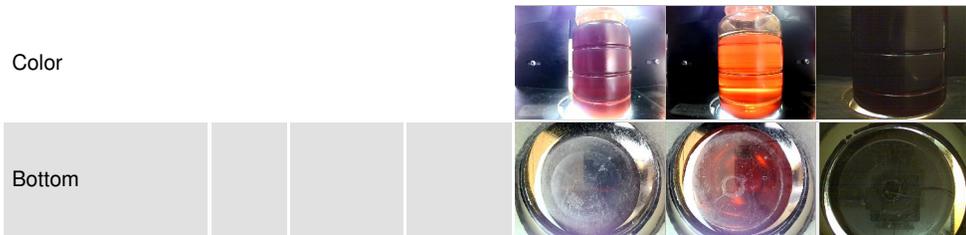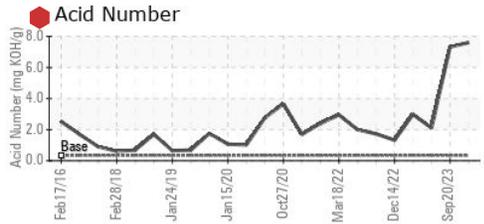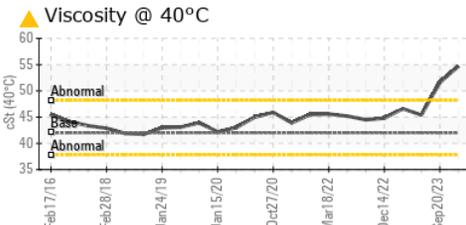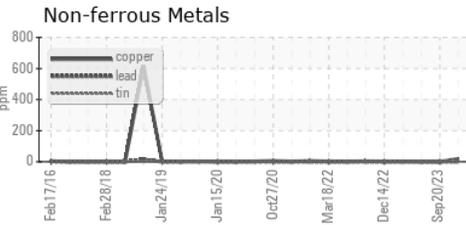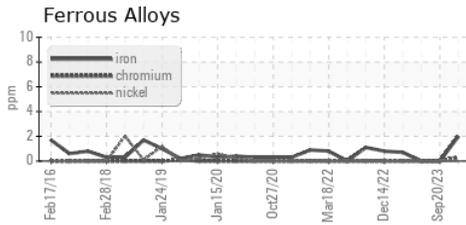
GRAPHS

Ferrous Alloys

Non-ferrous Metals

Viscosity @ 40°C

Acid Number

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