



PROBLEM SUMMARY

Sample Rating Trend

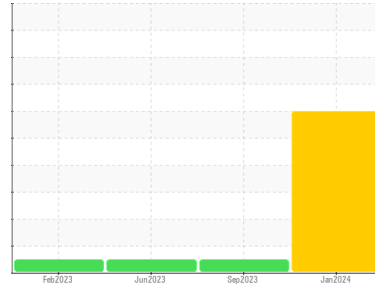
WATER



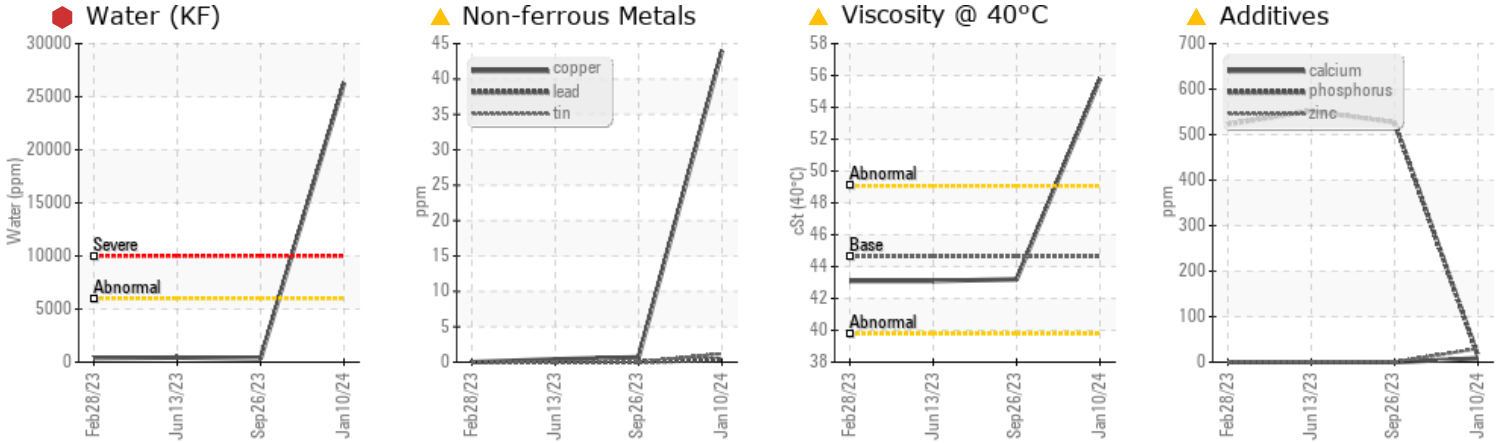
Machine Id
1701130001

Component
Air Compressor

Fluid
ULTRACHEM PALEXTRA 44 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise an early resample to confirm this situation.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Copper	ppm	ASTM D5185m	>40	▲ 44	<1	<1
Water	%	ASTM D6304	>0.6	● 2.63	0.033	0.043
ppm Water	ppm	ASTM D6304	>6000	● 26300	333.9	436.2

Customer Id: AMEITT
 Sample No.: USP0005238
 Lab Number: 06058100
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@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	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We advise an early resample to confirm this situation.

HISTORICAL DIAGNOSIS

26 Sep 2023 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



13 Jun 2023 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



28 Feb 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. Please specify the brand and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

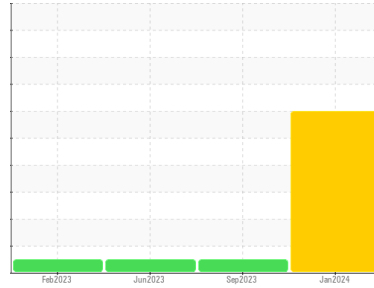
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
1701130001

Component
Air Compressor

Fluid
ULTRACHEM PALEXTRA 44 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise an early resample to confirm this situation.

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0005238	USP0001852	USP244534
Sample Date	Client Info		10 Jan 2024	26 Sep 2023	13 Jun 2023
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			SEVERE	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	0	0
Chromium	ppm	ASTM D5185m >4	<1	0	0
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	0	0
Lead	ppm	ASTM D5185m >20	<1	0	0
Copper	ppm	ASTM D5185m >40	▲ 44	<1	<1
Tin	ppm	ASTM D5185m >5	1	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	6	0	0
Barium	ppm	ASTM D5185m 0.3	▲ 334	0	0
Molybdenum	ppm	ASTM D5185m 0	<1	0	0
Manganese	ppm	ASTM D5185m 0.3	<1	<1	0
Magnesium	ppm	ASTM D5185m 0.4	6	0	0
Calcium	ppm	ASTM D5185m 0	8	0	0
Phosphorus	ppm	ASTM D5185m 689	▲ 14	527	552
Zinc	ppm	ASTM D5185m 0	▲ 30	0	0
Sulfur	ppm	ASTM D5185m 1237	▲ 425	515	685

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	<1	<1
Sodium	ppm	ASTM D5185m	72	<1	0
Potassium	ppm	ASTM D5185m >20	9	0	1
Water	%	ASTM D6304 >0.6	● 2.63	0.033	0.043
ppm Water	ppm	ASTM D6304 >6000	● 26300	333.9	436.2

FLUID CLEANLINESS

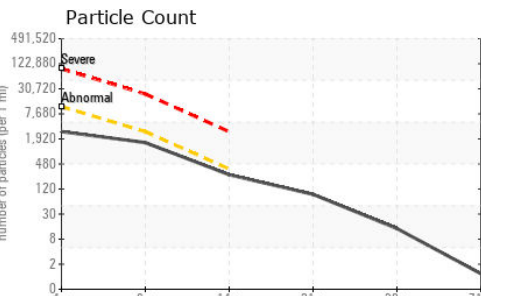
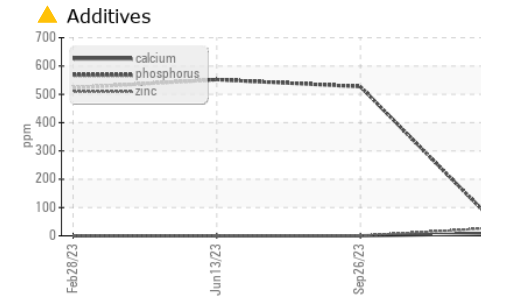
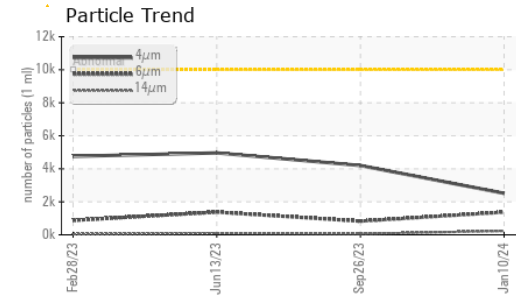
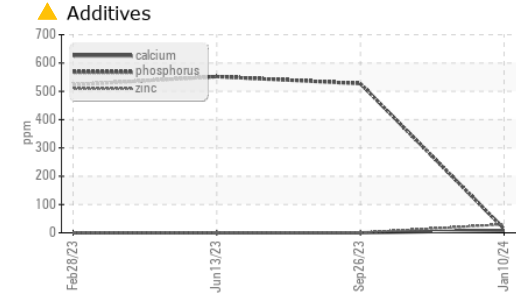
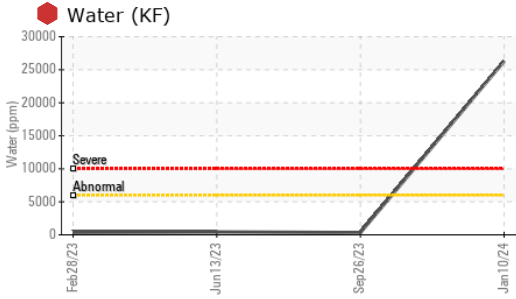
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	2514	4198	4963
Particles >6µm	ASTM D7647	>2500	1370	826	1374
Particles >14µm	ASTM D7647	>320	233	57	98
Particles >21µm	ASTM D7647	>80	79	18	24
Particles >38µm	ASTM D7647	>20	12	1	2
Particles >71µm	ASTM D7647	>4	1	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	19/18/15	19/17/13	19/18/14

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.135	0.52	0.17	0.15



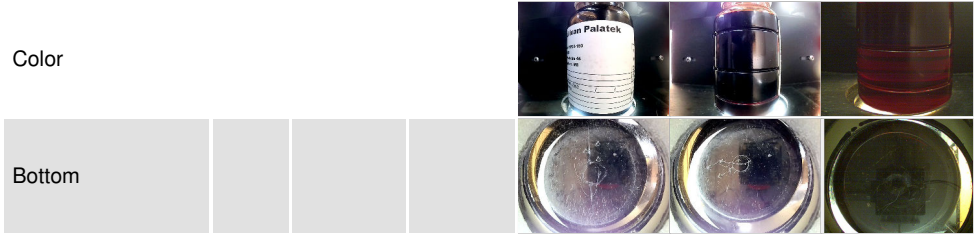
OIL ANALYSIS REPORT



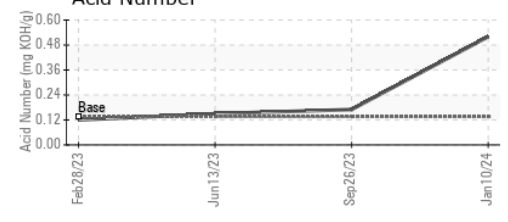
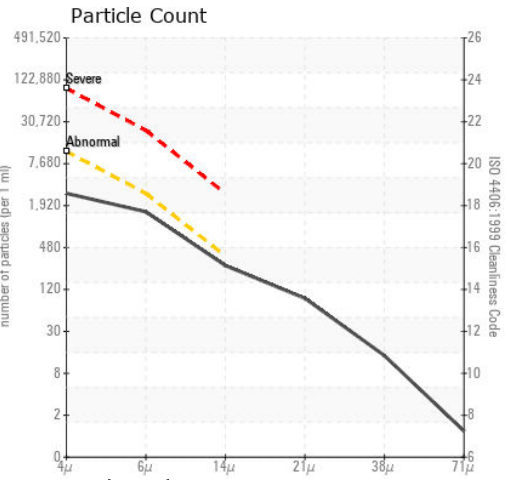
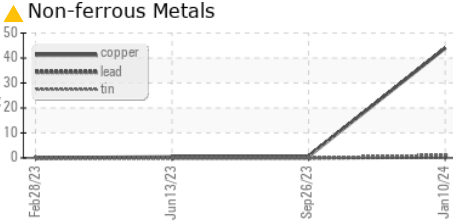
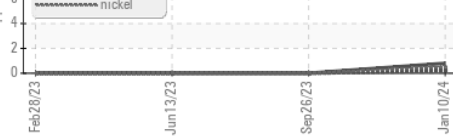
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.62 ▲ 55.79	43.2	43.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0005238 **Received** : 11 Jan 2024
Lab Number : 06058100 **Diagnosed** : 17 Jan 2024
Unique Number : 10829482 **Diagnostician** : Doug Bogart
Test Package : IND 2

AMERICA'S CATCH INC
 46623 COUNTY RD 523
 ITTA BENA, MS
 US 38941
 Contact: SHANE CARPENTER

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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