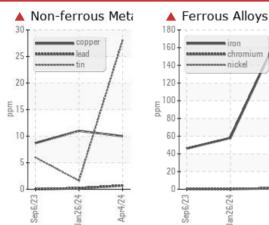


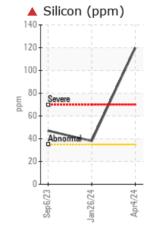
PROBLEM SUMMARY

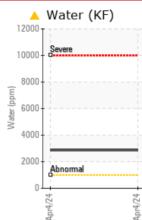
Apr4/24

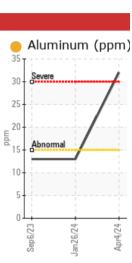
Area NOT GIVEN Machine Id GIVEN ATLAS COPCO AIF060613 - TULSA CEMENT PLANT AIR 3 Component Compressor

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC [*]	TEST RE	ESULTS				
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	1 64	58	46
Tin	ppm	ASTM D5185m	>10	2 8	2	6
Silicon	ppm	ASTM D5185m	>35	120	▲ 38	4 7
Water	%	ASTM D6304	>0.1	6 0.286		
ppm Water	ppm	ASTM D6304	>1000	<u> </u>		

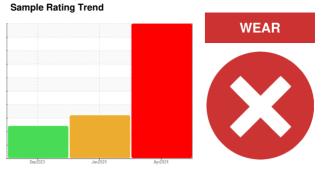
Customer Id: UCGRECLA Sample No.: UCH06155216 Lab Number: 06155216 Test Package: IND 2



To manage this report scan the QR code

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

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



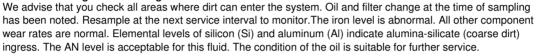
RECOMM	ACTI	ONG
	ACT	ONG

TIEOOMINIER BEB /				
Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.
Resample			?	We recommend an early resample to monitor this condition.
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

26 Jan 2024 Diag: Don Baldridge

DIRT





06 Sep 2023 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Area **NOT GIVEN** ATLAS COPCO AIF060613 - TULSA CEME Component Compressor

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

The iron level is severe. The tin level is severe.

Contamination

Appearance is hazy. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

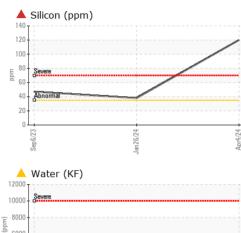
Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

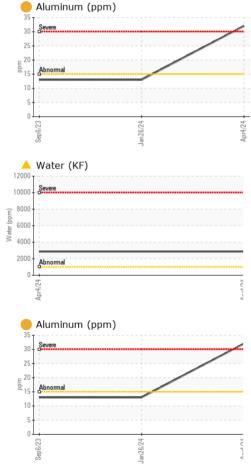
EMENT PLANT	AIR 3					
		_				
		Sep	2023	Jan2024 Apr202	4	
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		UCH06155216	UCH06077013	UCH05948146
Sample Date		Client Info		04 Apr 2024	26 Jan 2024	06 Sep 2023
Machine Age	hrs	Client Info		111071	109961	108678
Oil Age	hrs	Client Info		8000	8000	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1 64	58	46
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	9 32	1 3	1 3
Lead	ppm	ASTM D5185m	>65	<1	<1	0
Copper	ppm	ASTM D5185m	>65	10	11	9
Tin	ppm	ASTM D5185m	>10	4 28	2	6
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	0	0
Barium	ppm	ASTM D5185m		421	469	593
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		14	7	7
Calcium	ppm	ASTM D5185m		667	324	404
Phosphorus	ppm	ASTM D5185m		98	155	43
Zinc	ppm	ASTM D5185m		6	12	0
Sulfur	ppm	ASTM D5185m		596	693	679
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	120	▲ 38	4 7
Sodium	ppm	ASTM D5185m		14	16	18
Potassium	ppm	ASTM D5185m	>20	15	11	13
Water	%	ASTM D6304	>0.1	A 0.286		
ppm Water	ppm	ASTM D6304	>1000	A 2860		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.176	0.34	0.19



OIL ANALYSIS REPORT



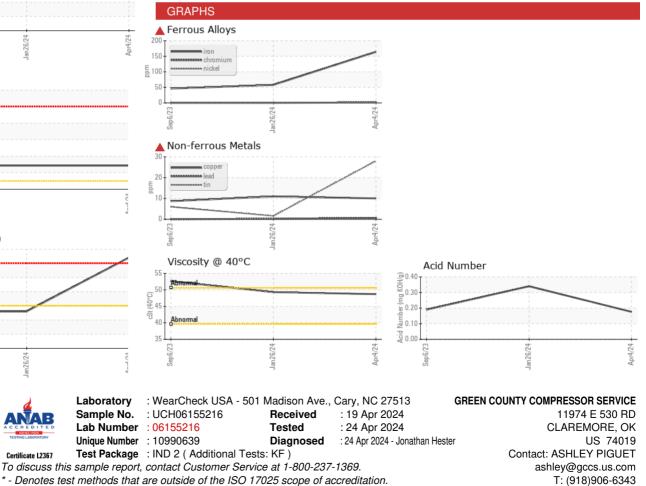




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		48.7	49.3	52.6
Visc @ 40°C SAMPLE IMAGES		ASTM D445 method	limit/base	48.7 current		
-					49.3	52.6

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: UCGRECLA [WUSCAR] 06155216 (Generated: 04/24/2024 13:10:54) Rev: 1

Certificate 12367

Contact/Location: ASHLEY PIGUET - UCGRECLA

F: