

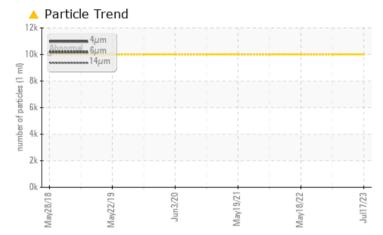
PROBLEM SUMMARY

Area WOOD SHOP Machine Id SULLAIR CWH-VCP03 (S/N 201307020047) Component

Compressor

ULTRACHEM PALEXTRA 44 (15 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	NORMAL	NORMAL		
Particles >4µm	ASTM D7647	>10000	<u> </u>				
Particles >6µm	ASTM D7647	>2500	A 3108				
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>				

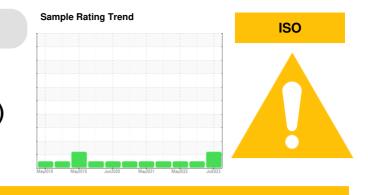
Customer Id: LANNEW Sample No.: WC0830439 Lab Number: 05903246 Test Package: PLANT



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 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS

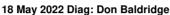
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

04 Dec 2022 Diag: Angela Borella



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.





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.

02 Nov 2021 Diag: Angela Borella



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

Area WOOD SHOP Machine Id SULLAIR CWH-VCP03 (S/N 201307020047) Component

Compressor

ULTRACHEM PALEXTRA 44 (15 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

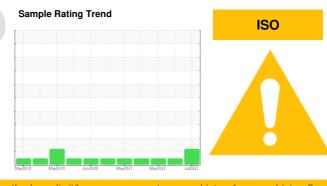
All component wear rates are normal.

Contamination

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

Fluid Condition

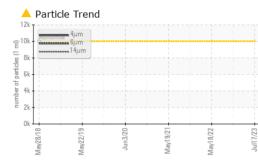
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

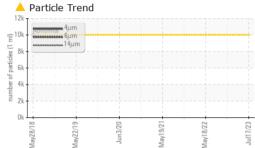


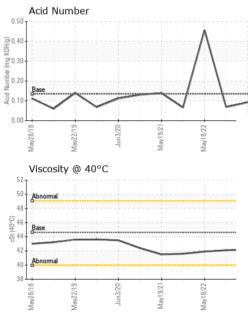
SAMPLE INFORMATION method limit/base current history1 history2 Sample Dumber Client Info VC0630499 WC0753454 WC069328 Sample Date Client Info 0 0 0 0 Machine Age hrs Client Info 0 0 0 0 Oll Age hrs Client Info VC0753445 N/A N/A Sample Status Client Info VC0753445 N/A N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM05185m >50 1 0 0 Nickel ppm ASTM05185m >50 0 0 0 Silver ppm ASTM05185m >50 <1 <1< <1 Auminum ppm ASTM05185m >50 <1 <1< <1 Auminum ppm ASTM05185m >50 <1 <1< <1 Aum			May2018	110/2010 00112020		Jul2023	
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 Imit/base current history1 history2 Iron ppm ASTM D5185m >50 1 0 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >50 1 0 <1 Lead ppm ASTM D5185m >50 0 0 <1 Lead ppm ASTM D5185m >50 <1 <1 <1 Tin ppm ASTM D5185m >50 <1 <1 <1 Lead ppm ASTM D5185m 0 0 0 0 AstM D5185m >10 0	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
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 Imit/base current history1 NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 1 0 <1	Sample Number		Client Info		WC0830439	WC0753845	WC0696328
Oit Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >50 1 0 <1	Sample Date		Client Info		17 Jul 2023	04 Dec 2022	18 May 2022
Oli Changed Client Info N/A N/A N/A N/A Sample Status Image of the status The status Image of the status Normal status WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 1 0 <1 Chromium ppm ASTM D5185m >50 1 0 <1 Okckel ppm ASTM D5185m >50 1 0 <1 Olicelad ppm ASTM D5185m >50 1 0 <1 Aluminum ppm ASTM D5185m >25 0 0 0 Capper ppm ASTM D5185m >25 0 0 0 Capper ppm ASTM D5185m >25 0 0 0 Attimony ppm ASTM D5185m >25 0 0 0 Attimony ppm ASTM D5185m >25 0 0 0 Capper ppm ASTM D5185m >25 0 0 0 Attimony ppm ASTM D5185m 0 0 0 21 Barium ppm ASTM D51	Machine Age	hrs	Client Info		0	0	0
Sample Status method Imit/base current NORMAL NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 1 0 <1	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 1 0 <1	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >50 1 0 <1 Chromium ppm ASTM D5185m 0 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m <1	Sample Status				ATTENTION	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 25 0 0 1 Aluminum ppm ASTM D5185m >25 0 0 1 Lead ppm ASTM D5185m >25 0 0 1 Lead ppm ASTM D5185m >50 <1 <1 1 Tin ppm ASTM D5185m >50 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 0 Addminum ppm ASTM D5185m 0 0 0 0 0 Addminum ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Marganese ppm ASTM D5185m 0.4 <th>WEAR METALS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m 0 0 0 Titanium ppm ASTM D5185m <1	Iron	ppm	ASTM D5185m	>50	1	0	<1
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m >25 0 0 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m <1 0 <1 Aluminum ppm ASTM D5185m >25 0 0 <1	Nickel	ppm	ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m >25 0 0 <1 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1	Silver	ppm	ASTM D5185m		<1	0	<1
Copper ppm ASTM D5185m >50 <1 <1 <1 Tin ppm ASTM D5185m >15 0 0 <1	Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Tin ppm ASTM D5185m >15 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0.3 0 0 0 Magnese ppm ASTM D5185m 0.3 0 0 0 Calcium ppm ASTM D5185m 0.3 0 0 2 Silicon ppm ASTM D5185m 0 0 0 4 Sodium ppm ASTM D5185m 1237 245 346 240 CONTAMINANTS method imit/base current history1	Lead	ppm	ASTM D5185m	>25	0	0	0
Antimony ppm ASTM D5185m 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 0 0 0 <1	Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 <1 Barium ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0.3 0 0 0 0 Manganese ppm ASTM D5185m 0.4 0 0 2 Calcium ppm ASTM D5185m 0.4 0 0 4 Phosphorus ppm ASTM D5185m 0.4 0 0 4 Sulfur ppm ASTM D5185m 0.4 0 0 0 Sulfur ppm ASTM D5185m 225 8 8 7 Solicon ppm ASTM D5185m >20 <1	Tin	ppm	ASTM D5185m	>15	0	0	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 <1 Barium ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0.3 0 0 0 0 Magnesium ppm ASTM D5185m 0.3 0 0 0 2 Calcium ppm ASTM D5185m 0.4 0 2 2 Calcium ppm ASTM D5185m 0.4 0 0 4 Phosphorus ppm ASTM D5185m 0.4 0 0 4 Sulfur ppm ASTM D5185m 0.4 0 0 0 Sulfur ppm ASTM D5185m 225 8 8 7 Sodium ppm ASTM D5185m >20	Antimony	ppm	ASTM D5185m				
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0.3 0 0 0 Marganese ppm ASTM D5185m 0.3 0 0 0 Marganesium ppm ASTM D5185m 0.4 0 0 2 Calcium ppm ASTM D5185m 0.4 0 0 4 Phosphorus ppm ASTM D5185m 0 -1 0 0 Sulfur ppm ASTM D5185m 0 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 0 0 0 <<1 Barium ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0.3 0 0 0 Manganese ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0.4 0 0 2 Calcium ppm ASTM D5185m 0 0 0 4 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1237 245 346 240 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 8 7 Sodium ppm ASTM D5185m >20 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0.3 6 5 21 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0.4 0 0 2 Calcium ppm ASTM D5185m 0.4 0 0 4 Phosphorus ppm ASTM D5185m 0.4 0 0 4 Phosphorus ppm ASTM D5185m 0.4 0 0 0 Sulfur ppm ASTM D5185m 0 <1 0 0 Sulfur ppm ASTM D5185m 1237 245 346 240 Sodium ppm ASTM D5185m >25 8 8 7 Sodium ppm ASTM D5185m >20 <1 0 <10 FLUID CLEANLINESS method limit/base current hi	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM 05185m 0 0 0 0 0 Manganese ppm ASTM 05185m 0.3 0 0 0 0 Magnesium ppm ASTM 05185m 0.4 0 0 4 Calcium ppm ASTM 05185m 0 0 0 0 4 Phosphorus ppm ASTM 05185m 0 0 0 0 0 0 Sulfur ppm ASTM 05185m 0 <1 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM 05185m >25 8 8 7 Sodium ppm ASTM 05185m >20 <1 0 <1 Potassium ppm ASTM 05185m >20 <1 0 <1 Particles >4µm ASTM 07647 >10000 10914 Particl	Boron	ppm	ASTM D5185m	0	0	0	<1
Magnesse ppm ASTM D5185m 0.3 0 0 0 Magnesium ppm ASTM D5185m 0.4 0 0 2 Calcium ppm ASTM D5185m 0 0 0 4 Phosphorus ppm ASTM D5185m 689 179 233 254 Zinc ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0.3	6	5	21
Magnesium ppm ASTM D5185m 0.4 0 0 2 Calcium ppm ASTM D5185m 0 0 0 4 Phosphorus ppm ASTM D5185m 689 179 233 254 Zinc ppm ASTM D5185m 0 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium ppm ASTM D5185m 0 0 0 4 Phosphorus ppm ASTM D5185m 689 179 233 254 Zinc ppm ASTM D5185m 0 <1	Manganese	ppm	ASTM D5185m	0.3	0	0	0
Phosphorus ppm ASTM D5185m 689 179 233 254 Zinc ppm ASTM D5185m 0 <1	Magnesium	ppm	ASTM D5185m	0.4	0	0	2
Zinc ppm ASTM D5185m 0 <1 0 0 Sulfur ppm ASTM D5185m 1237 245 346 240 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 8 7 Sodium ppm ASTM D5185m >26 23 15 Potassium ppm ASTM D5185m >20 <1	Calcium	ppm	ASTM D5185m	0	0	0	4
SulfurppmASTM D5185m1237245346240CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25887SodiumppmASTM D5185m262315PotassiumppmASTM D5185m>20<1	Phosphorus	ppm	ASTM D5185m	689	179	233	254
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25887SodiumppmASTM D5185m262315PotassiumppmASTM D5185m>20<1		ppm	ASTM D5185m	0	<1	0	0
Silicon ppm ASTM D5185m >25 8 8 7 Sodium ppm ASTM D5185m 26 23 15 Potassium ppm ASTM D5185m >20 <1 0 <1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 10914 Particles >6µm ASTM D7647 >2500 3108 Particles >6µm ASTM D7647 >320 256 Particles >14µm ASTM D7647 >320 256 Particles >21µm ASTM D7647 >20 6 Particles >38µm ASTM D7647 >20 6 Particles >71µm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Sulfur	ppm	ASTM D5185m	1237	245	346	240
Sodium ppm ASTM D5185m 26 23 15 Potassium ppm ASTM D5185m >20 <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 0 <1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 10914 Particles >6µm ASTM D7647 >2500 3108 Particles >6µm ASTM D7647 >2500 3108 Particles >14µm ASTM D7647 >320 256 Particles >21µm ASTM D7647 >80 82 Particles >38µm ASTM D7647 >20 6 Particles >71µm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	8	8	7
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 10914 Particles >6µm ASTM D7647 >2500 3108 Particles >6µm ASTM D7647 >320 256 Particles >14µm ASTM D7647 >80 82 Particles >21µm ASTM D7647 >20 6 Particles >38µm ASTM D7647 >20 6 Particles >71µm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		26	23	15
Particles >4μm ASTM D7647 >10000 ▲ 10914 Particles >6μm ASTM D7647 >2500 ▲ 3108 Particles >14μm ASTM D7647 >320 256 Particles >21μm ASTM D7647 >80 82 Particles >21μm ASTM D7647 >20 6 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Particles >6µm ASTM D7647 >2500 ▲ 3108 Particles >14µm ASTM D7647 >320 256 Particles >21µm ASTM D7647 >80 82 Particles >38µm ASTM D7647 >20 6 Particles >38µm ASTM D7647 >4 1 Particles >71µm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >320 256 Particles >21μm ASTM D7647 >80 82 Particles >38μm ASTM D7647 >20 6 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647	>10000	 10914		
Particles >21μm ASTM D7647 >80 82 Particles >38μm ASTM D7647 >20 6 Particles >371μm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>2500	<u> </u>		
Particles >38μm ASTM D7647 >20 6 Particles >71μm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>320	256		
Particles >71μm ASTM D7647 >4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>80	82		
Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 21/19/15 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>20	6		
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>4	1		
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 21/19/15		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
TOTATION IN INTO IN ASTRI DOUAS 0.153 0.092 0.009 0.457	Acid Number (AN)	mg KOH/g	ASTM D8045	0.135	0.092	0.069	0.457



OIL ANALYSIS REPORT

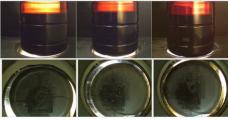




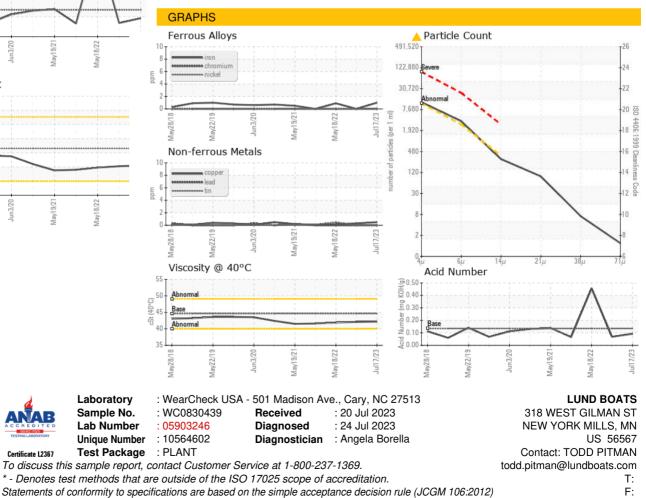


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.62	42.2	42.1	41.9
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



Contact/Location: TODD PITMAN - LANNEW