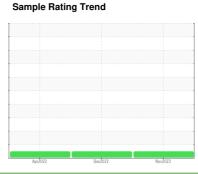


OIL ANALYSIS REPORT

Component

Compressor





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

QUINCY BU1204270044 - PCA

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component.

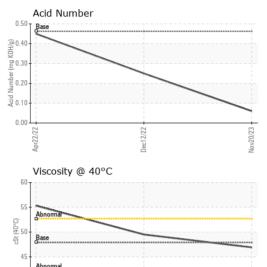
Fluid Condition

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

Sample Number Client Info UCH06027895 UCH05724947 UCH0553288 Sample Date Client Info 20 Nov 2023 12 Dec 2022 22 Apr 2022 Apr 2022			AD	12.02.2	DOCENTE NOVEN		
Sample Date	SAMPLE INFORM	MOITAN	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 69874 65604 Oil Age hrs Client Info 0 4270 0 Oil Changed Client Info Not Changd Not Changd Changed Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL 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 0 0 0 Verancium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >0 0 0 0 Sliver ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead	Sample Number		Client Info		UCH06027895	UCH05724947	UCH05532856
Oil Age hrs Client Info 0 4270 0 Oil Changed Sample Status Client Info Not Changd NORMAL NoRMAL NORMAL CONTAMINATION method limit/base current history1 history2 Wear METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 <1	Sample Date		Client Info		20 Nov 2023	12 Dec 2022	22 Apr 2022
Oil Changed Sample Status Client Info Not Changd NORMAL Not Changd NORMAL Changed NORMAL Changed NORMAL	Machine Age	hrs	Client Info		0	69874	65604
NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2	Oil Age	hrs	Client Info		0	4270	0
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 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >0 0 0 0 Silver ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Tin ppm ASTM D5185m >50 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 </td <td>Oil Changed</td> <td></td> <td>Client Info</td> <td></td> <td>Not Changd</td> <td>Not Changd</td> <td>Changed</td>	Oil Changed		Client Info		Not Changd	Not Changd	Changed
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 0 0 Copper ppm ASTM D5185m >50 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Tin ppm ASTM D5185m >15 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 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0	Nickel	ppm	ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >50 <1 0 0 Tin ppm ASTM D5185m >15 0 0 <1	Aluminum	ppm	ASTM D5185m	>25	0	0	0
Tin ppm ASTM D5185m >15 0 0 <1 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 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 1283 657 122 8<	Lead	ppm	ASTM D5185m	>25	0	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 1.5 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m >25 <1 3 <1 CON	Copper	ppm	ASTM D5185m	>50	<1	0	0
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1.5 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 <1	Tin	ppm	ASTM D5185m	>15	0	0	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1.5 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 1.5 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m >20 0 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 104 125 10 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Boron	ppm	ASTM D5185m	1.5	0	0	0
Manganese ppm ASTM D5185m 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 104 125 10 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m 20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 104 125 10 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m 20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 406 104 125 10 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Manganese	ppm	ASTM D5185m	0.3	<1	0	0
Phosphorus ppm ASTM D5185m 406 104 125 10 Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m 2 0 0 0 Potassium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Magnesium	ppm	ASTM D5185m	0	0	0	0
Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Calcium	ppm	ASTM D5185m	0	0	0	0
Sulfur ppm ASTM D5185m 1283 657 122 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus	ppm	ASTM D5185m	406	104	125	10
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon ppm ASTM D5185m >25 <1 3 <1 Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Sulfur	ppm	ASTM D5185m	1283	657	122	8
Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS	3	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	<1	3	<1
Potassium ppm ASTM D5185m >20 0 <1 0 FLUID DEGRADATION method limit/base current history1 history2	Sodium		ASTM D5185m		2	0	0
	Potassium		ASTM D5185m	>20	0	<1	0
Acid Number (AN) mg KOH/g ASTM D8045 0.463 0.06 0.25 0.45	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.463	0.06	0.25	0.45



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	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	47.9	46.9	49.5	55.3
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C Acid Number (B 0.50 W 0.40 Ē 0.30 흔 0.20 ₹ 0.10





Certificate L2367

Laboratory Sample No. Lab Number

: UCH06027895 : 06027895 Unique Number : 10777686 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Dec12/22

Diagnosed Diagnostician : Don Baldridge

: 07 Dec 2023 : 09 Dec 2023

0.00 G

CISCO AIR SYSTEMS 214 27TH ST SACRAMENTO, CA US 95816 Contact: BARRY FRKOVICH

barryfrkovich@ciscoair.com T: (916)444-2525

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Bottom

* - 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) Dec12/22 -

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