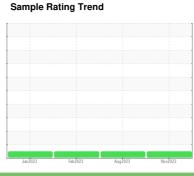


OIL ANALYSIS REPORT

AIRLUBE 228 [1397024] Machine Id ATLAS COPCO API624607 - USG 3

Component

Compressor





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

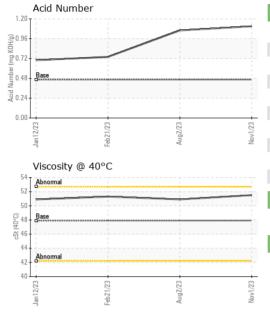
Fluid Condition

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

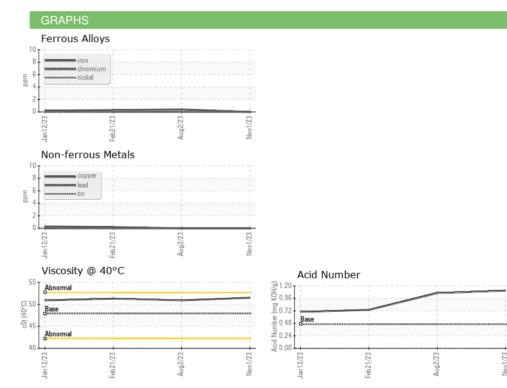
Sample Number Client Info UCH06012572 UCH05917637 UCH057888 Sample Date Client Info 01 Nov 2023 02 Aug 2023 21 Feb 202 Machine Age hrs Client Info 24408 0 22950 Oil Age hrs Client Info 24408 0 22950 Oil Age hrs Client Info Changed No RMAL No Changd N/A Oil Age hrs Client Info Changed No Changd N/A NoRMAL NE			Janzuz	3 H80ZUZ3	Augzuza No	VZUZ3	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 24408 0 22950 Oil Age hrs Client Info 8000 7000 1900 Oil Changed Client Info Changed Not Changd N/A Sample Status Normal NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imit/base current history1 history1 Water WC Method >0.1 NEG NEG NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >5.0 0 <1	Sample Number		Client Info		UCH06012572	UCH05917637	UCH05783898
Oil Age hrs Client Info 8000 7000 1900 Oil Changed Client Info Changed Not Changd N/A Sample Status 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 <1 <1 Chromium ppm ASTM D5185m >50 0 <1 <1 Chromium ppm ASTM D5185m >50 0 <1 <1 Chromium ppm ASTM D5185m >50 0 <1 <1 Lead ppm ASTM D5185m 0 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Sample Date		Client Info		01 Nov 2023	02 Aug 2023	21 Feb 2023
Oil Changed Sample Status Client Info Changed NORMAL Not Changd NORMAL N/A NORMAL CONTAMINATION method limit/base current history1 history1 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >5 0 0 0 Chromium ppm ASTM D5185m >5 0 0 0 Nikel ppm ASTM D5185m 0 0 0 0 Niker ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m 0 0 0 1 Lead ppm ASTM D5185m >65 0 0 0 0 Copper ppm ASTM D5185m >65 0 0 0 0 Tin ppm ASTM D5185m 0 0	Machine Age	hrs	Client Info		24408	0	22950
NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 history2	Oil Age	hrs	Client Info		8000	7000	1900
NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 history2	Oil Changed		Client Info		Changed	Not Changd	N/A
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 <1	Sample Status				NORMAL		NORMAL
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 <1	CONTAMINATIO	V	method	limit/base	current	history1	history2
Iron			WC Method	>0.1			•
Chromium ppm ASTM D5185m >5 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Titanium ppm ASTM D5185m 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m 0 0 0 Titanium ppm ASTM D5185m 0 <1	Iron	ppm	ASTM D5185m	>50	0	<1	<1
Titanium ppm ASTM D5185m 0 <1 0 Silver ppm ASTM D5185m 0 0 <1	Chromium	ppm	ASTM D5185m	>5	0	0	0
Silver ppm ASTM D5185m 0 0 <1 Aluminum ppm ASTM D5185m >15 <1 <1 <1 Lead ppm ASTM D5185m >65 0 0 0 Copper ppm ASTM D5185m >65 0 0 <1 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 <1 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 >15 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <td>Titanium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td><1</td> <td>0</td>	Titanium	ppm	ASTM D5185m		0	<1	0
Lead ppm ASTM D5185m >65 0 0 0 Copper ppm ASTM D5185m >65 0 0 <1 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 <1 0 Cadmium ppm ASTM D5185m 0 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 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0.3 <1 0 0 Calcium ppm ASTM D5185m 0 <1 0 0 Phosphorus ppm ASTM D5185m 1283 10 0 <	Silver	ppm	ASTM D5185m		0	0	<1
Copper ppm ASTM D5185m >65 0 0 <1 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 <1	Aluminum	ppm	ASTM D5185m	>15	<1	<1	<1
Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 <1 0 Cadmium ppm ASTM D5185m 0 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 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0.3 <1 0 0 Magnesium ppm ASTM D5185m 0 <1 0 <1 Calcium ppm ASTM D5185m 0 <1 0 0 Phosphorus ppm ASTM D5185m 0 0 0 <th< td=""><td>Lead</td><td>ppm</td><td>ASTM D5185m</td><td>>65</td><th>0</th><td>0</td><td>0</td></th<>	Lead	ppm	ASTM D5185m	>65	0	0	0
Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 1.5 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Mall Molybdenum ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 0.3 <1 0 0 0 Magnesium ppm ASTM D5185m 0 <1 0 <1 0 <1 Calcium ppm ASTM D5185m 0 <1 0 0 <1 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMI	Copper	ppm	ASTM D5185m	>65	0	0	<1
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	>10	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	Vanadium	ppm	ASTM D5185m		0	<1	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 <1 0 <1 Calcium ppm ASTM D5185m 0 <1 0 0 Phosphorus ppm ASTM D5185m 406 39 34 7 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m >20 1 0	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 <1 0 <1 Calcium ppm ASTM D5185m 0 <1 0 0 Phosphorus ppm ASTM D5185m 406 39 34 7 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m >20 1 0 <1 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 <1 0 <1 Calcium ppm ASTM D5185m 0 <1 0 0 Phosphorus ppm ASTM D5185m 406 39 34 7 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 0 <1 0 <1 Calcium ppm ASTM D5185m 0 <1 0 0 Phosphorus ppm ASTM D5185m 406 39 34 7 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium ppm ASTM D5185m 0 <1 0 0 Phosphorus ppm ASTM D5185m 406 39 34 7 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1	Manganese	ppm	ASTM D5185m	0.3	<1	0	0
Phosphorus ppm ASTM D5185m 406 39 34 7 Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m <1 <1 0 Potassium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Magnesium	ppm	ASTM D5185m	0	<1	0	<1
Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m <1 <1 0 Potassium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Calcium	ppm	ASTM D5185m	0	<1	0	0
Sulfur ppm ASTM D5185m 1283 10 0 5 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m <1 <1 0 Potassium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Phosphorus	ppm	ASTM D5185m	406	39	34	7
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >35 0 0 <1	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon ppm ASTM D5185m >35 0 0 <1 Sodium ppm ASTM D5185m <1 <1 0 Potassium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Sulfur	ppm	ASTM D5185m	1283	10	0	5
Sodium ppm ASTM D5185m <1 <1 0 Potassium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 1 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>35	0	0	<1
FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		<1	<1	0
·	Potassium	ppm	ASTM D5185m	>20	1	0	<1
Acid Number (AN) mg KOH/g ASTM D8045 0.463 1.11 1.06 0.74	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.463	1.11	1.06	0.74



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	51.5	50.9	51.3
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						







Certificate L2367

Laboratory Sample No. Lab Number Test Package : IND 2

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UCH06012572 : 06012572 : 10751716

Bottom

Received Diagnosed

: 20 Nov 2023 : 22 Nov 2023 Diagnostician : Don Baldridge

AIR TECHNOLOGIES INC (GR) 160 84TH STREET SW SUITE 1

BYRON CENTER, MI US 49315

Contact: STEPHANIE CLAYPOOL stephanie.claypool@aircompressors.com

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)

F: (616)281-6737

T: