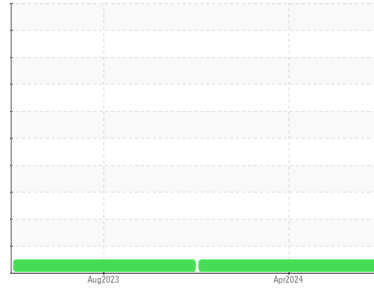




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

AIRLUBE 228 [DA520]

Machine Id

ATLAS COPCO API604-840 - CLEVELAND CLIFFS

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		UCH06180248	UCH05984900	---
Sample Date	Client Info		17 Apr 2024	30 Aug 2023	---
Machine Age	hrs	Client Info	94971	91060	---
Oil Age	hrs	Client Info	1951	1934	---
Oil Changed	Client Info		Not Chngd	Not Chngd	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	3	<1	---
Chromium	ppm	ASTM D5185m >5	<1	0	---
Nickel	ppm	ASTM D5185m	<1	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >15	5	5	---
Lead	ppm	ASTM D5185m >65	<1	0	---
Copper	ppm	ASTM D5185m >65	<1	1	---
Tin	ppm	ASTM D5185m >10	<1	<1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1.5	0	0	---
Barium	ppm	ASTM D5185m 0	0	5	---
Molybdenum	ppm	ASTM D5185m 0	<1	0	---
Manganese	ppm	ASTM D5185m 0.3	0	<1	---
Magnesium	ppm	ASTM D5185m 0	<1	0	---
Calcium	ppm	ASTM D5185m 0	<1	3	---
Phosphorus	ppm	ASTM D5185m 406	241	101	---
Zinc	ppm	ASTM D5185m 0	31	50	---
Sulfur	ppm	ASTM D5185m 1283	0	12	---

CONTAMINANTS

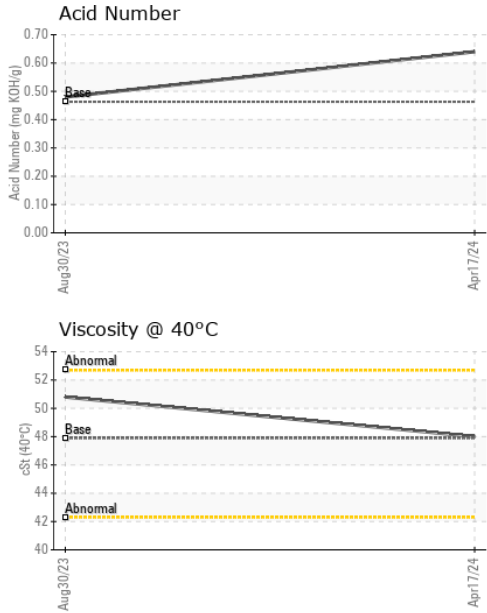
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<1	0	---
Sodium	ppm	ASTM D5185m	<1	4	---
Potassium	ppm	ASTM D5185m >20	1	<1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.463	0.64	0.48	---



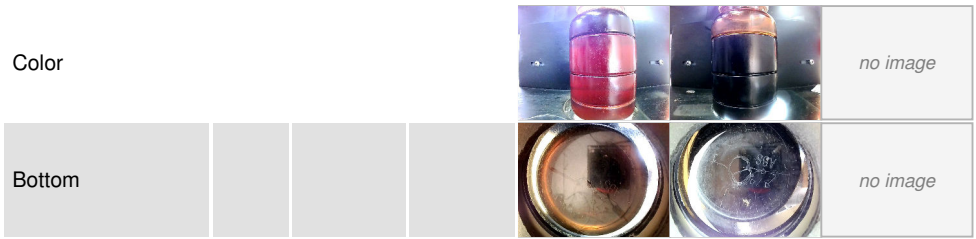
OIL ANALYSIS REPORT



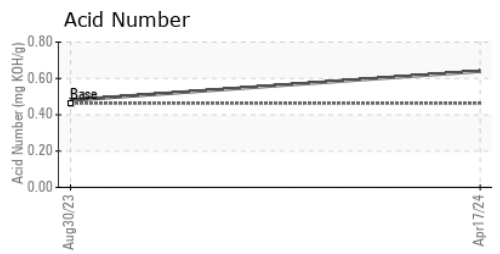
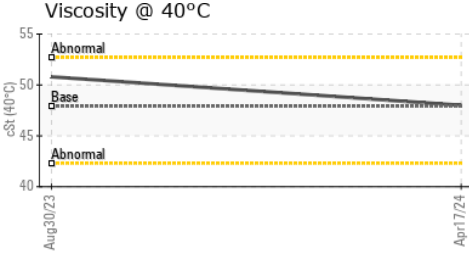
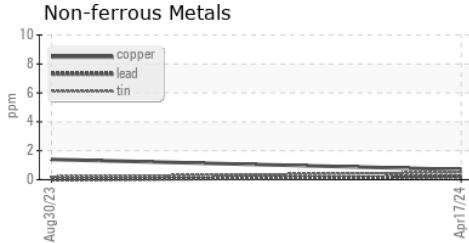
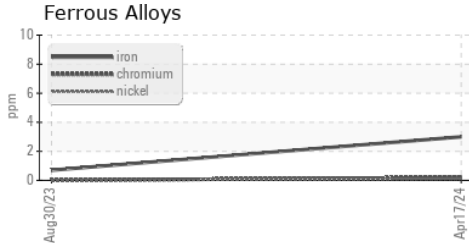
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	47.9	48.0	50.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH06180248 **Received** : 15 May 2024
Lab Number : **06180248** **Tested** : 16 May 2024
Unique Number : 11031574 **Diagnosed** : 17 May 2024 - Sean Felton
Test Package : IND 2

AIR TECHNOLOGIES INC (MID)
 400 WRIGHT AVE
 MIDDLETOWN, OH
 US 45044
 Contact: KEITH HAYES
 Keith.Hayes@aircompressors.com
 T: (513)615-6378
 F: (513)539-6040

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)