



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

ROTO Z

Machine Id

ATLAS COPCO AIR106966 - SANOFI (S/N AIF106966)

Component

Compressor

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Analytical Ferrography: Results appear normal, with minimal amounts of contamination and virtually no ferrous wear. Iron showing in metals analysis may be a result of slight corrosion or fluid age allowing mild accumulation of submicron wear debris as the lubricant is quite dark (typical of compressor oils in mid-to-late stage of use). Please note that this is a corrected copy for analytical ferrography testing and diagnostic comment updates.

Wear

All component wear rates are normal.

Contaminants

There is no indication of any contamination in the oil.

Oil 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		UCH06140007	---	---
Sample Date	Client Info		04 Apr 2024	---	---
Machine Age	hrs	Client Info	84646	---	---
Oil Age	hrs	Client Info	5924	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	31	---	---
Chromium	ppm	ASTM D5185m >5	0	---	---
Nickel	ppm	ASTM D5185m	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >15	0	---	---
Lead	ppm	ASTM D5185m >65	0	---	---
Copper	ppm	ASTM D5185m >65	<1	---	---
Tin	ppm	ASTM D5185m >10	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	<1	---	---
Calcium	ppm	ASTM D5185m	6	---	---
Phosphorus	ppm	ASTM D5185m	466	---	---
Zinc	ppm	ASTM D5185m	27	---	---
Sulfur	ppm	ASTM D5185m	797	---	---

CONTAMINANTS

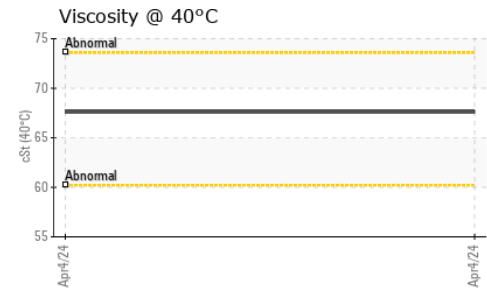
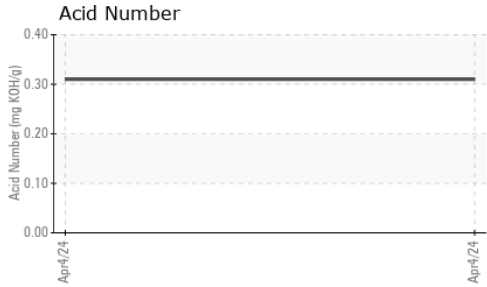
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	0	---	---
Sodium	ppm	ASTM D5185m	<1	---	---
Potassium	ppm	ASTM D5185m >20	0	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.31	---	---





OIL ANALYSIS REPORT



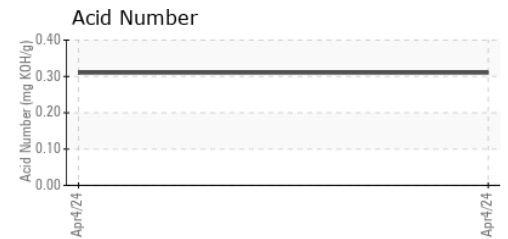
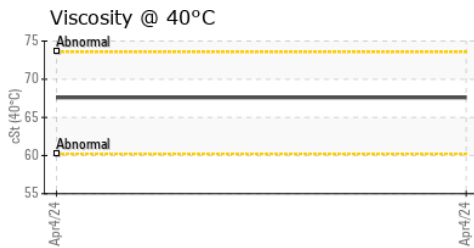
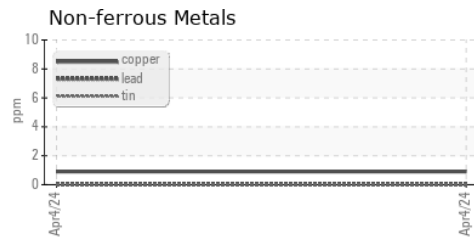
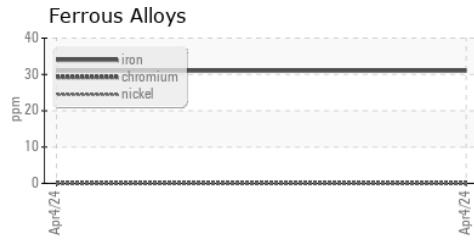
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	67.6	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH06140007 **Received** : 05 Apr 2024
Lab Number : 06140007 **Tested** : 12 Apr 2024
Unique Number : 10964815 **Diagnosed** : 12 Apr 2024 - Aaron Black
Test Package : IND 2 (Additional Tests: A-FERR)

AIRMATIC COMPRESSOR SYSTEMS
 700 WASHINGTON AVE
 CARLSTADT, NJ
 US 07072
 Contact: ELVIN DIAZ
 ediaz@airmaticcompressor.com; canastasio@wearcheckusa.com
 T: (800)864-7621
 F: (201)342-6241

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)



FERROGRAPHY REPORT

Area

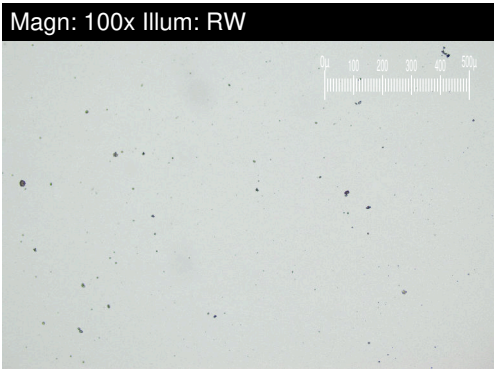
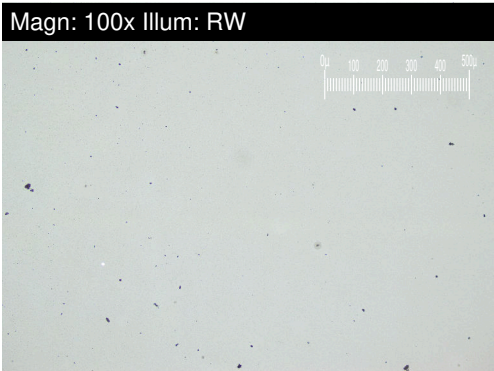
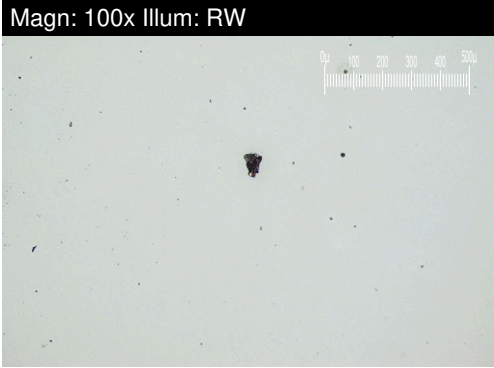
ROTO Z

Machine Id

ATLAS COPCO AIR106966 - SANOFI (S/N AIF106966)

Component

Compressor



FERROGRAPHY	method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684	1		
Ferrous Sliding	Scale 0-10	*ASTM D7684			
Ferrous Cutting	Scale 0-10	*ASTM D7684			
Ferrous Rolling	Scale 0-10	*ASTM D7684			
Ferrous Break-in	Scale 0-10	*ASTM D7684			
Ferrous Spheres	Scale 0-10	*ASTM D7684			
Ferrous Black Oxides	Scale 0-10	*ASTM D7684			
Ferrous Red Oxides	Scale 0-10	*ASTM D7684			
Ferrous Corrosive	Scale 0-10	*ASTM D7684			
Ferrous Other	Scale 0-10	*ASTM D7684			
Nonferrous Rubbing	Scale 0-10	*ASTM D7684			
Nonferrous Sliding	Scale 0-10	*ASTM D7684			
Nonferrous Cutting	Scale 0-10	*ASTM D7684			
Nonferrous Rolling	Scale 0-10	*ASTM D7684			
Nonferrous Other	Scale 0-10	*ASTM D7684			
Carbonaceous Material	Scale 0-10	*ASTM D7684			
Lubricant Degradation	Scale 0-10	*ASTM D7684			
Sand/Dirt	Scale 0-10	ASTM D7684			
Fibres	Scale 0-10	*ASTM D7684			
Spheres	Scale 0-10	*ASTM D7684			
Other	Scale 0-10	*ASTM D7684	1		

WEAR

All component wear rates are normal.

This page left intentionally blank