



OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**SEVERE**  
**ATTENTION**



Area  
**ACS-46-5 [417434]**  
Machine Id  
**ATLAS COPCO AII357389 - JOHNSON AND JOHNSON**  
Component  
**Compressor**

**RECOMMENDATION**

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

**WEAR**

An increase in the iron level is noted.

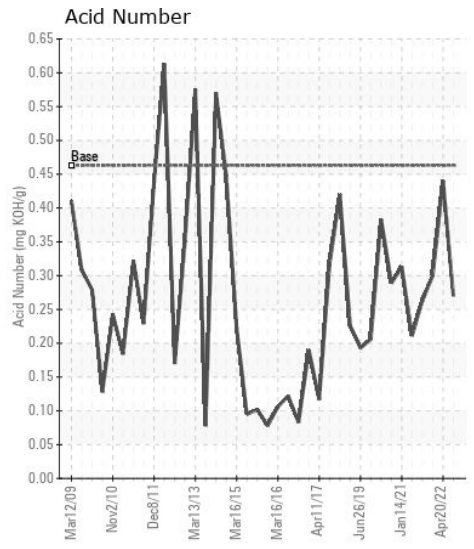
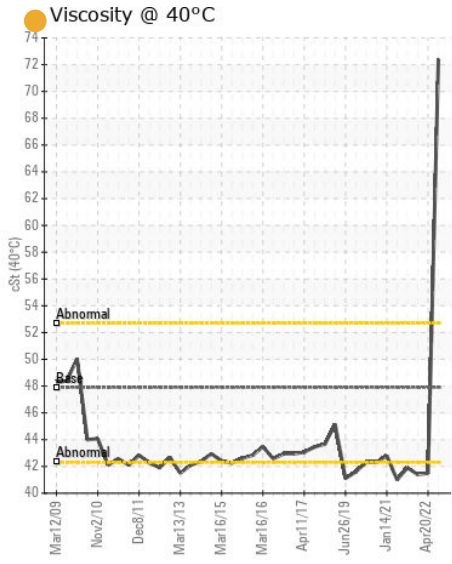
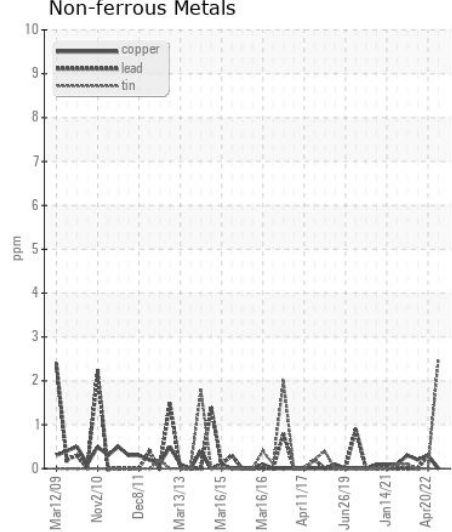
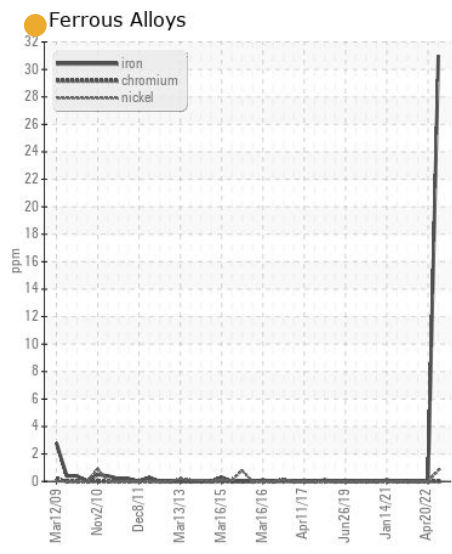
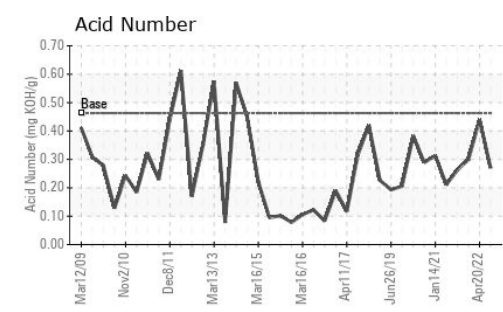
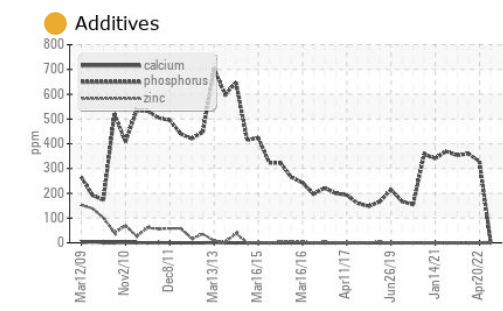
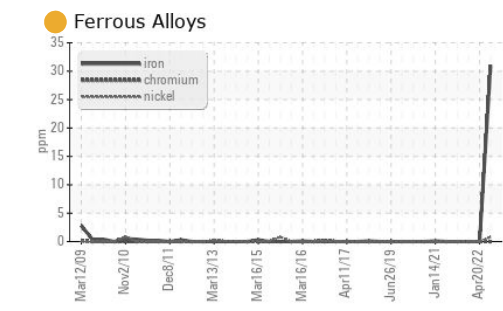
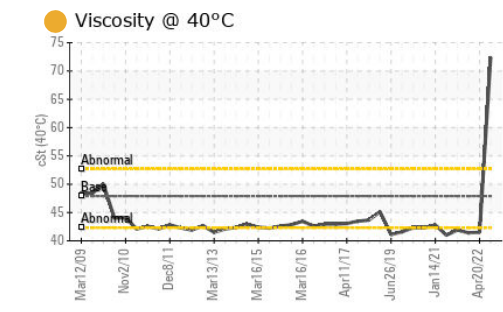
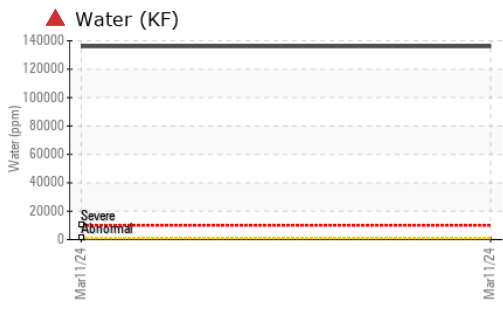
**CONTAMINATION**

Appearance is milky. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. There is a high amount of visible silt present in the sample.

**FLUID CONDITION**

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>UCH06125743</b>	UCH05534127	UCH05468900
Sample Date		Client Info		<b>11 Mar 2024</b>	20 Apr 2022	31 Jan 2022
Machine Age	hrs	Client Info		<b>167450</b>	150910	149022
Oil Age	hrs	Client Info		<b>2967</b>	8473	6585
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	<b>31</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>2</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	<1	0
Water	%	ASTM D6304	>0.1	<b>13.6</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	<b>136000</b>	---	---
Silt	scalar	*Visual	NONE	<b>HEAVY</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>MODER</b>	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>MILKY</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>0.2%</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>77</b>	0	0
Boron	ppm	ASTM D5185m	1.5	<b>5</b>	0	0
Barium	ppm	ASTM D5185m	0	<b>117</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	0.3	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	0	<b>2</b>	0	0
Calcium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185m	406	<b>6</b>	328	360
Zinc	ppm	ASTM D5185m	0	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	1283	<b>590</b>	717	611
Acid Number (AN)	mg KOH/g	ASTM D8045	0.463	<b>0.27</b>	0.44	0.30
Visc @ 40°C	cSt	ASTM D445	47.9	<b>72.4</b>	41.5	41.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCH06125743 **Received** : 21 Mar 2024  
**Lab Number** : 06125743 **Tested** : 26 Mar 2024  
**Unique Number** : 10939894 **Diagnosed** : 26 Mar 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF )

**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)