



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**ATLAS COPCO CMP #1**  
 Component  
**Centrifugal Compressor**  
 Fluid  
**ATLAS COPCO ROTO H PLUS (681 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: Yearly oil sample test CMP1 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0943223</b>	WC0701215	WC0701227
Sample Date		Client Info		<b>28 May 2024</b>	23 Aug 2023	11 May 2022
Machine Age	yrs	Client Info		<b>20</b>	20	0
Oil Age	yrs	Client Info		<b>0</b>	0	0
Filter Age	yrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)		<b>0</b>	0	0
Chromium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)		<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)		<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)		<b>0</b>	0	0
Tin	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<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

## CONTAMINATION

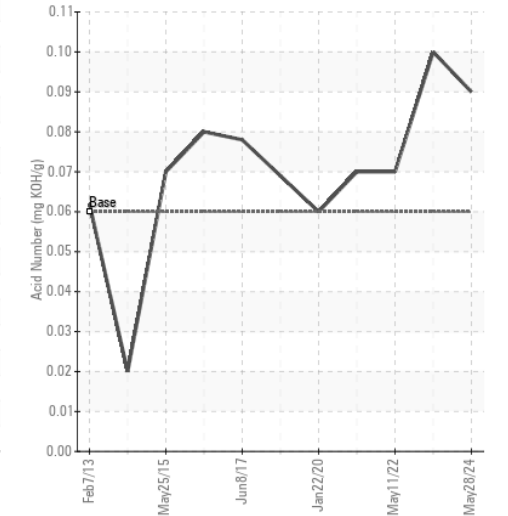
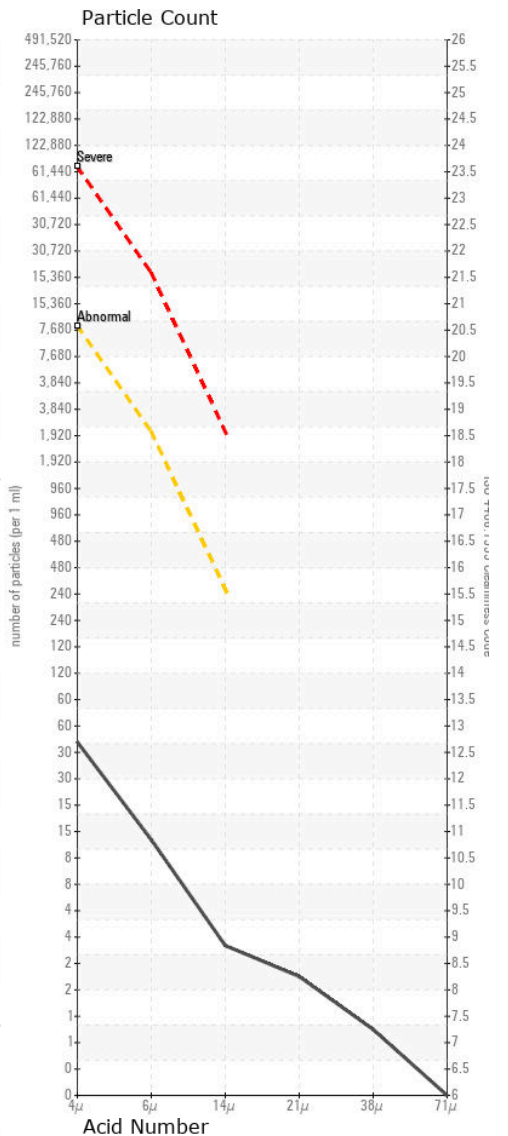
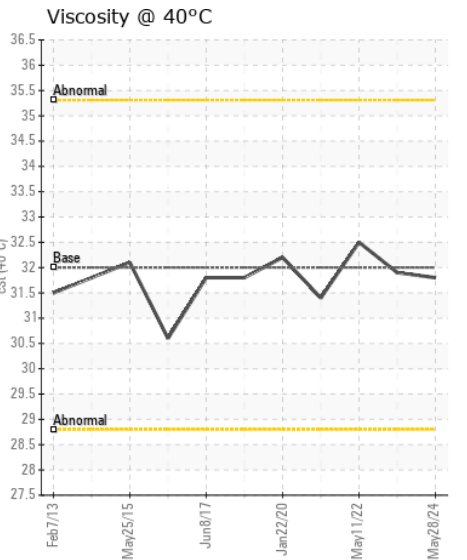
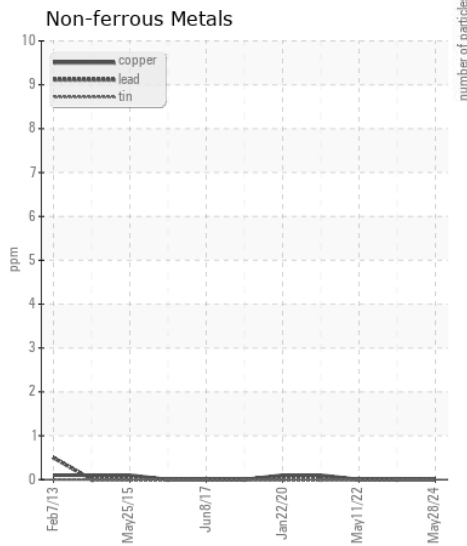
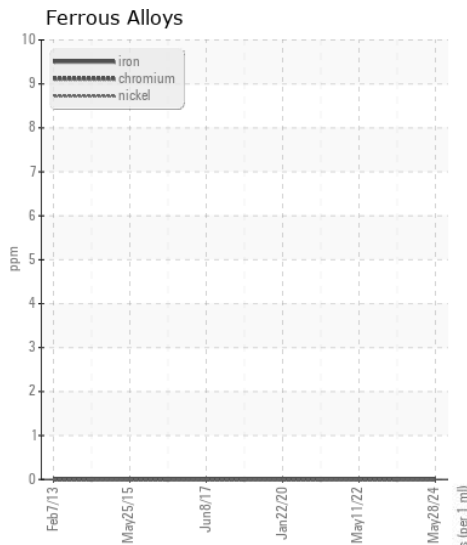
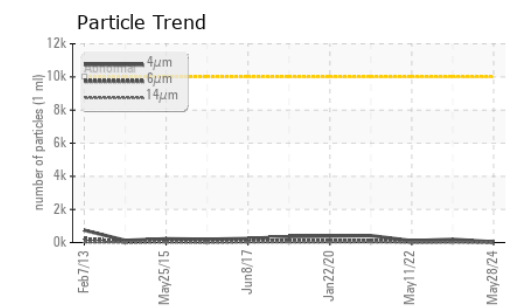
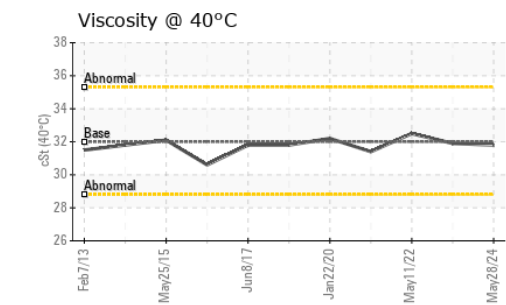
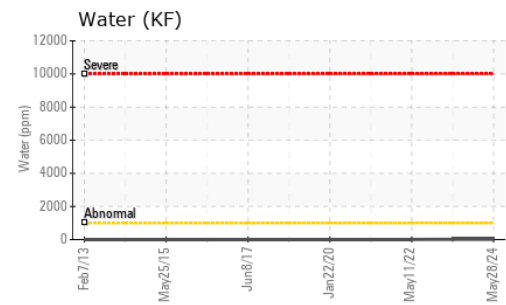
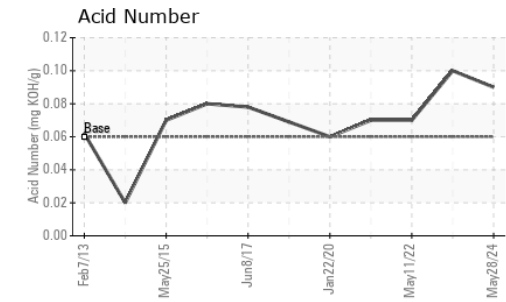
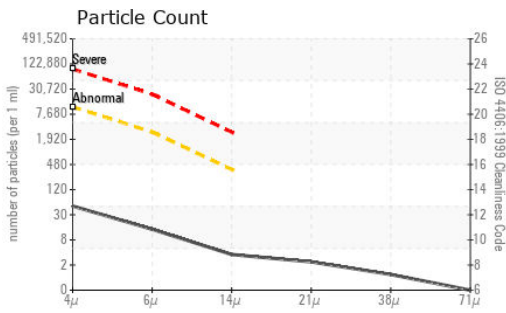
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Water	%	ASTM D6304*	>0.1	<b>0.001</b>	0.001	0.00
ppm Water	ppm	ASTM D6304*	>1000	<b>11</b>	8.3	0.00
Particles >4µm		ASTM D7647	>10000	<b>43</b>	196	110
Particles >6µm		ASTM D7647	>2500	<b>12</b>	60	37
Particles >14µm		ASTM D7647	>320	<b>3</b>	9	6
Particles >21µm		ASTM D7647	>80	<b>2</b>	4	2
Particles >38µm		ASTM D7647	>20	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>13/11/9</b>	15/13/10	14/12/10
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Boron	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Phosphorus	ppm	ASTM D5185(m)		<b>2</b>	3	2
Zinc	ppm	ASTM D5185(m)		<b>1</b>	2	1
Sulfur	ppm	ASTM D5185(m)		<b>49</b>	47	45
Acid Number (AN)	mg KOH/g	ASTM D974*	0.06	<b>0.09</b>	0.10	0.07
Visc @ 40°C	cSt	ASTM D7279(m)	32.0	<b>31.8</b>	31.9	32.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0943223 **Received** : 30 May 2024  
**Lab Number** : 02638880 **Tested** : 04 Jun 2024  
**Unique Number** : 5788042 **Diagnosed** : 04 Jun 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )

**NATIONAL RESEARCH COUNCIL**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.