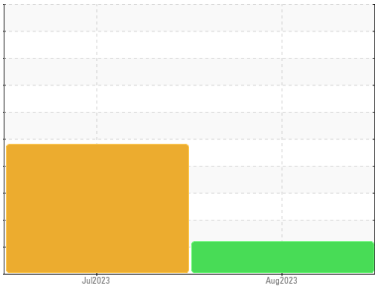
PROBLEM SUMMARY

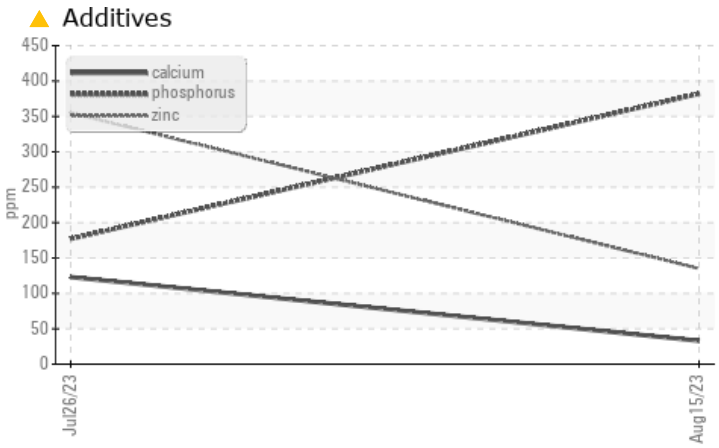
Sample Rating Trend



ADDITIVES

Area
SB5
Machine Id
ATLAS COPCO 1023898 SB5 compressor (S/N AP1302157)
Component
Oil
Fluid
ATLAS COPCO ROTO INJECT FLUID (7 LTR)

COMPONENT CONDITION SUMMARY



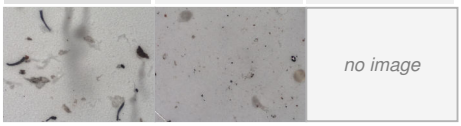
RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. (Customer Sample Comment: Check for metal fragments, we are waiting on filters and will change based on this test.)

PROBLEMATIC TEST RESULTS

Sample Status				**ATTENTION**	ABNORMAL	---
Calcium	ppm	ASTM D5185(m)	1000	▲ **33**	▲ 123	---
Zinc	ppm	ASTM D5185(m)	590	▲ **135**	▲ 355	---
Sulfur	ppm	ASTM D5185(m)		▲ **838**	▲ 993	---

PrtFilter



Customer Id: WATGEO
Sample No.: WC0776669
Lab Number: 02576423
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS

VISUAL METAL

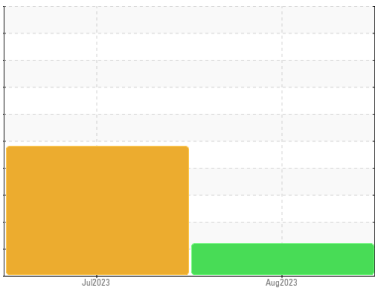
26 Jul 2023 Diag: Kevin Marson

The component was not specified so we have determined that this is a hydraulic system based on the fluid type in use. Please specify the correct component type on your next sample. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as ATLAS COPCO ROTO INJECT FLUID, however, a fluid match indicates that this fluid is ISO 46 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample.Light concentration of visible metal present. All other component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES

Area
SB5
Machine Id
ATLAS COPCO 1023898 SB5 compressor (S/N AP1302157)
Component
Oil
Fluid
ATLAS COPCO ROTO INJECT FLUID (7 LTR)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. (Customer Sample Comment: Check for metal fragments, we are waiting on filters and will change based on this test.)

Wear

All component wear rates are normal.

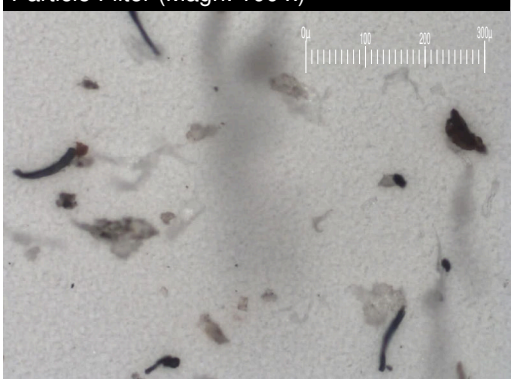
Contamination

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

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Particle Filter (Magn: 100 x)



SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0776669**	LH	---
Sample Date		Client Info		**15 Aug 2023**	26 Jul 2023	---
Machine Age	wks	Client Info		**0**	0	---
Oil Age	wks	Client Info		**3**	3	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ATTENTION**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		**2**	4	---
Chromium	ppm	ASTM D5185(m)		**0**	0	---
Nickel	ppm	ASTM D5185(m)		**0**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)		**0**	0	---
Aluminum	ppm	ASTM D5185(m)		**<1**	<1	---
Lead	ppm	ASTM D5185(m)		**<1**	0	---
Copper	ppm	ASTM D5185(m)		**<1**	<1	---
Tin	ppm	ASTM D5185(m)		**0**	0	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	---
Barium	ppm	ASTM D5185(m)		**<1**	1	---
Molybdenum	ppm	ASTM D5185(m)		**0**	0	---
Manganese	ppm	ASTM D5185(m)		**0**	0	---
Magnesium	ppm	ASTM D5185(m)		**<1**	2	---
Calcium	ppm	ASTM D5185(m)	1000	▲ **33**	▲ 123	---
Phosphorus	ppm	ASTM D5185(m)	510	**382**	▲ 177	---
Zinc	ppm	ASTM D5185(m)	590	▲ **135**	▲ 355	---
Sulfur	ppm	ASTM D5185(m)		▲ **838**	▲ 993	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

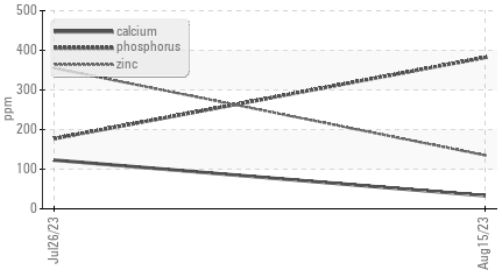
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**0**	<1	---
Sodium	ppm	ASTM D5185(m)		**6**	13	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**2122**	▲ 11190	---
Particles >6µm		ASTM D7647	>1300	**427**	▲ 2628	---
Particles >14µm		ASTM D7647	>160	**41**	▲ 212	---
Particles >21µm		ASTM D7647	>40	**15**	▲ 65	---
Particles >38µm		ASTM D7647	>10	**1**	4	---
Particles >71µm		ASTM D7647	>3	**0**	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**18/16/13**	▲ 21/19/15	---

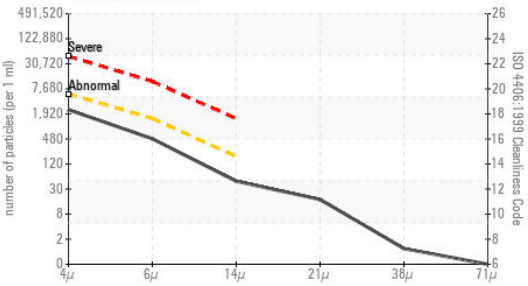
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.95	**0.29**	---	---

OIL ANALYSIS REPORT

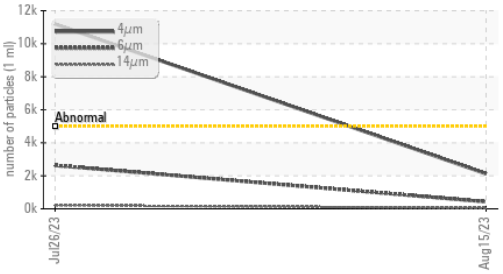
Additives



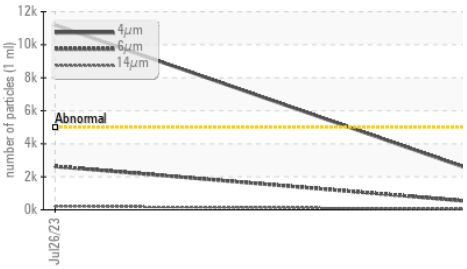
Particle Count



Particle Trend



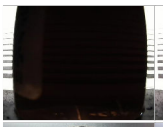
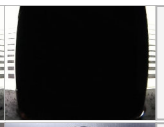
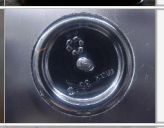
Particle Trend



Acid Number

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	**52.2**	49.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*
PrtFilter					*no image*

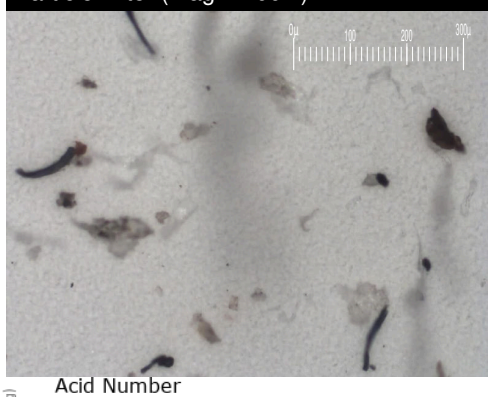
GRAPHS

Ferrous Alloys

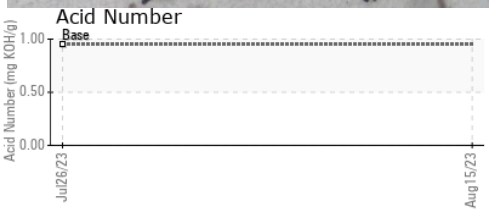
Non-ferrous Metals

Viscosity @ 40°C

Particle Filter (Magn: 100 x)



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Watch Tower Bible and Tract Society of Canada**
Sample No. : WC0776669 **Received** : 17 Aug 2023 13893 Highway 7
Lab Number : 02576423 **Diagnosed** : 24 Aug 2023 Georgetown, ON
Unique Number : 5629483 **Diagnostician** : Kevin Marson CA L7G 4S4
Test Package : IND 2 (Additional Tests: BottomAnalysis, FILTERPATCH, PrtCount, PrtFilter, TAN, WA) Contact: Purchasing Department

To discuss this sample report, contact Customer Service at 1-800-268-2131. purchase.ca@jw.org
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)873-4101
Validity of results and interpretation are based on the sample and information as supplied. F: (905)873-4508