



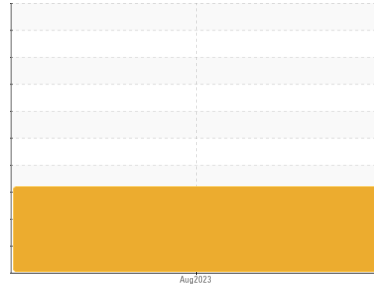
PROBLEM SUMMARY

Sample Rating Trend

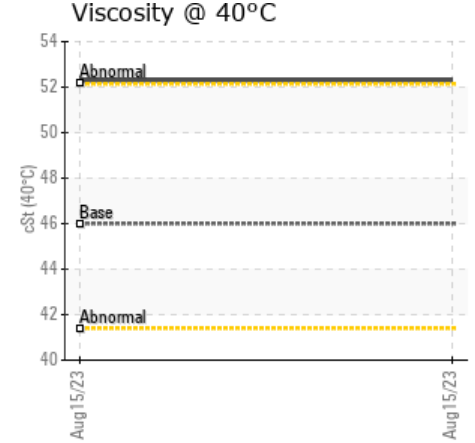
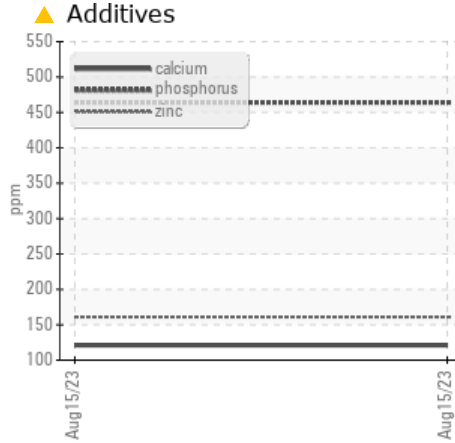
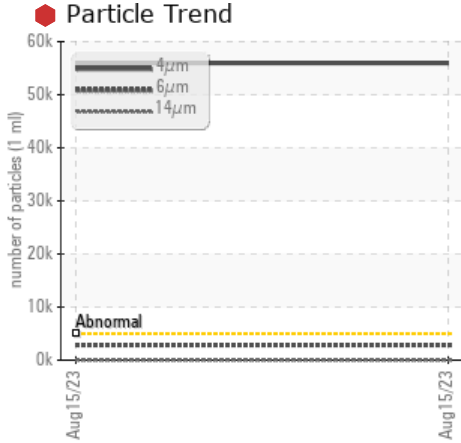
ISO



Area
SB1
 Machine Id
ATLAS COPCO 1002633 SB1 Compressor (S/N A11200341)
 Component
Oil
 Fluid
ATLAS COPCO ROTO INJECT FLUID (8 LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. (Customer Sample Comment: We think this is Atlas Ndurance Roto Inject Fluid, please confirm as we had some personnel changes.)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Calcium	ppm	ASTM D5185(m)	1000	▲ 121	---	---
Zinc	ppm	ASTM D5185(m)	590	▲ 161	---	---
Sulfur	ppm	ASTM D5185(m)		▲ 1322	---	---
Particles >4µm		ASTM D7647	>5000	● 55970	---	---
Particles >6µm		ASTM D7647	>1300	▲ 2845	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 23/19/11	---	---

Customer Id: WATGEO
 Sample No.: WC0776670
 Lab Number: 02576424
 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
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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
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



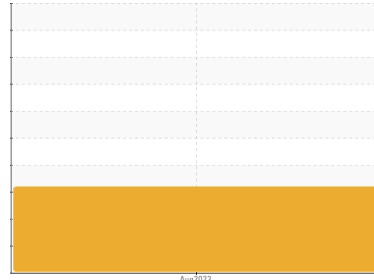
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
SB1
 Machine Id
ATLAS COPCO 1002633 SB1 Compressor (S/N A11200341)
 Component
Oil
 Fluid
ATLAS COPCO ROTO INJECT FLUID (8 LTR)



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. (Customer Sample Comment: We think this is Atlas Ndurance Roto Inject Fluid, please confirm as we had some personnel changes.)

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The oil viscosity is higher than typical. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0776670	---	---
Sample Date	Client Info		15 Aug 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	8	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	5	---
Chromium	ppm	ASTM D5185(m)	>20	0	---
Nickel	ppm	ASTM D5185(m)	>20	0	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)		0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	---
Lead	ppm	ASTM D5185(m)	>20	<1	---
Copper	ppm	ASTM D5185(m)	>20	2	---
Tin	ppm	ASTM D5185(m)	>20	0	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	---
Barium	ppm	ASTM D5185(m)		0	---
Molybdenum	ppm	ASTM D5185(m)		0	---
Manganese	ppm	ASTM D5185(m)		0	---
Magnesium	ppm	ASTM D5185(m)		2	---
Calcium	ppm	ASTM D5185(m)	1000	▲ 121	---
Phosphorus	ppm	ASTM D5185(m)	510	464	---
Zinc	ppm	ASTM D5185(m)	590	▲ 161	---
Sulfur	ppm	ASTM D5185(m)		▲ 1322	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	1	---
Sodium	ppm	ASTM D5185(m)		4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---

FLUID CLEANLINESS

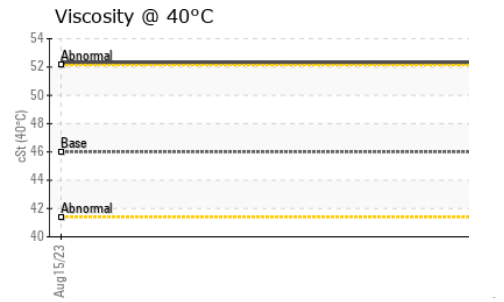
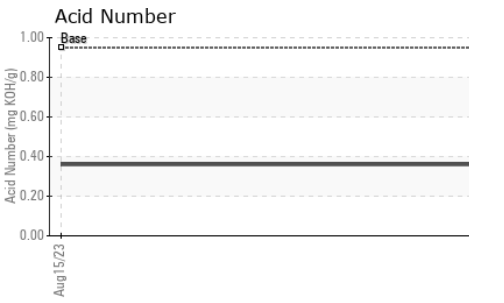
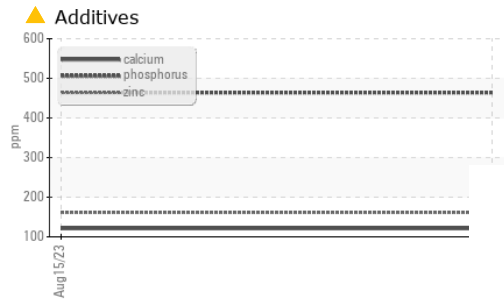
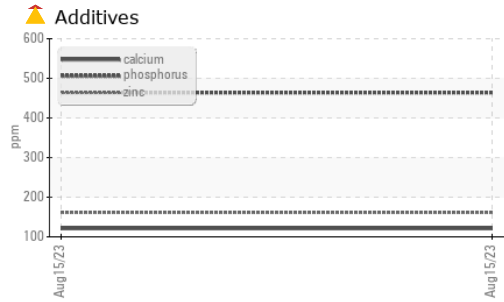
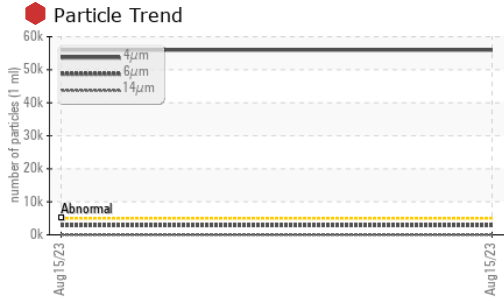
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	● 55970	---	---
Particles >6µm	ASTM D7647	>1300	▲ 2845	---	---
Particles >14µm	ASTM D7647	>160	16	---	---
Particles >21µm	ASTM D7647	>40	4	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	● 23/19/11	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.95	0.36	---



OIL ANALYSIS REPORT



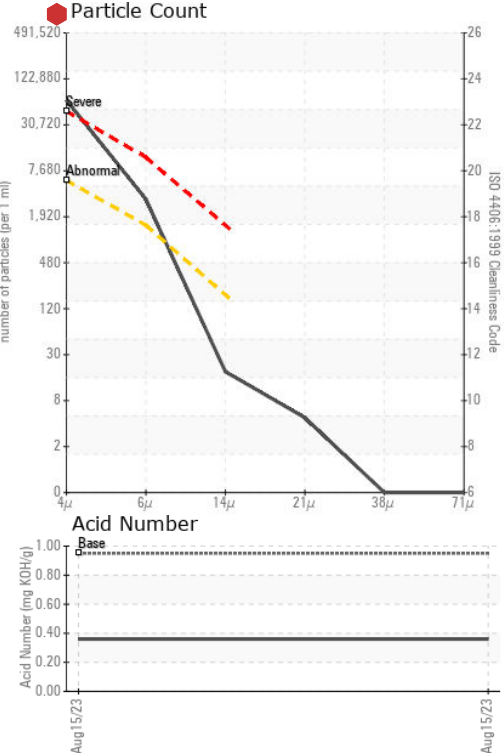
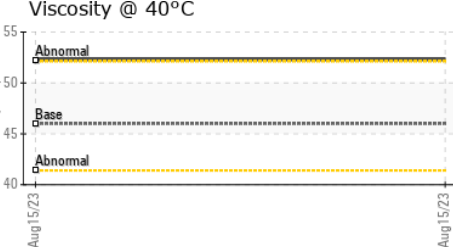
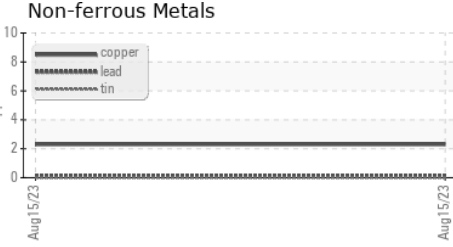
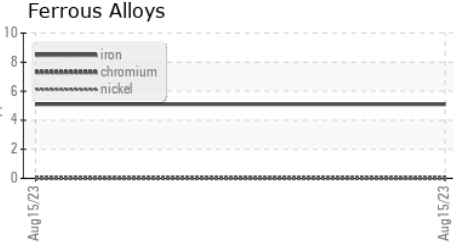
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	52.3	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Watch Tower Bible and Tract Society of Canada
Sample No. : WC0776670 **Received** : 17 Aug 2023 **13893 Highway 7**
Lab Number : 02576424 **Diagnosed** : 23 Aug 2023 **Georgetown, ON**
Unique Number : 5629484 **Diagnostician** : Kevin Marson **CA L7G 4S4**
Test Package : IND 2 (Additional Tests: PrtCount, TAN MAN) **Contact: Purchasing Department**
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.