



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION



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

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.)

Test	UOM	Method	Limit/Abn	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	---	---
Filter Age	hrs	Client Info		8	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

WEAR

All component wear rates are normal.

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	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

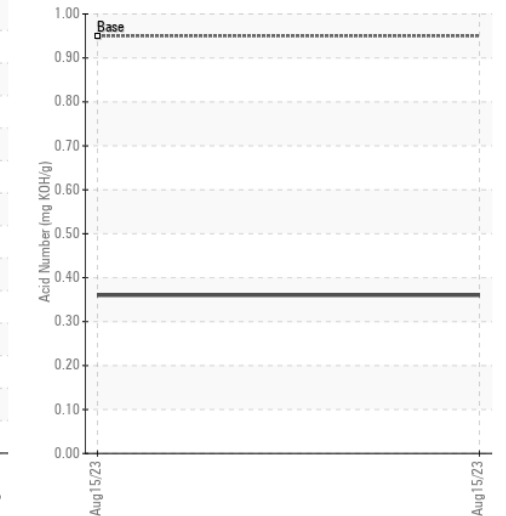
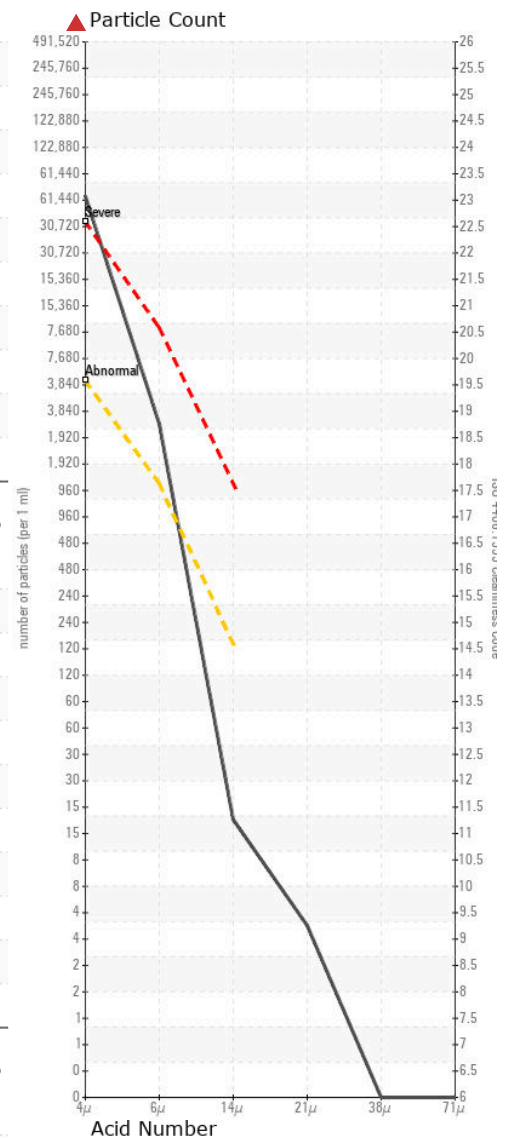
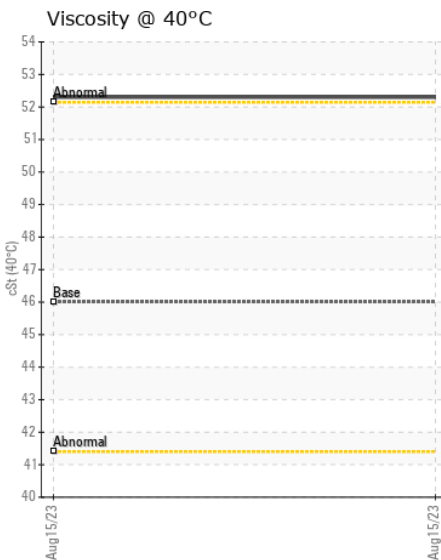
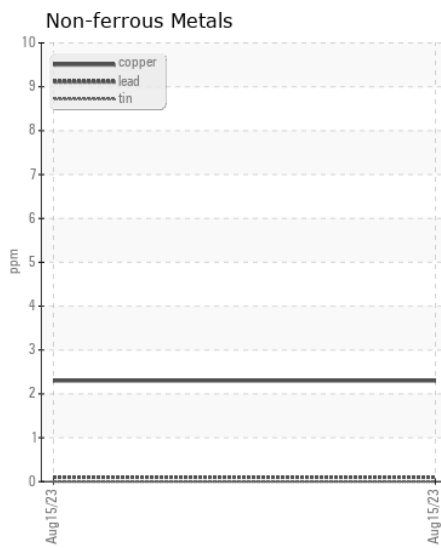
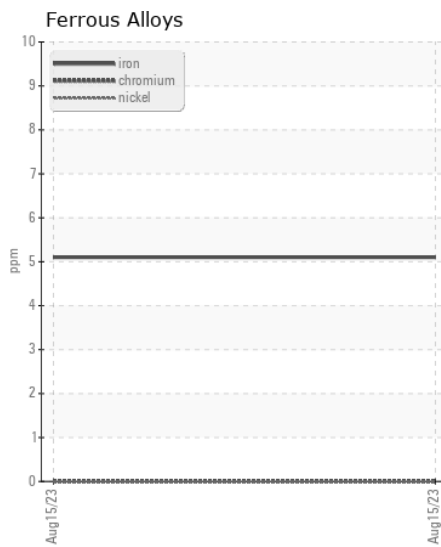
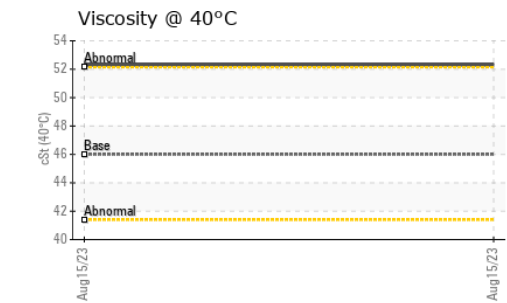
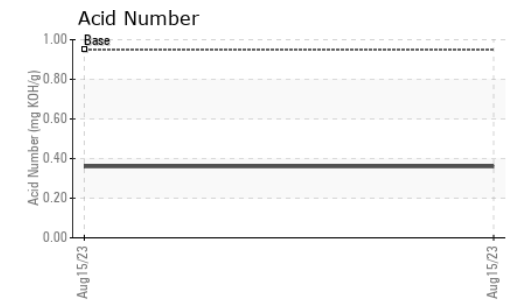
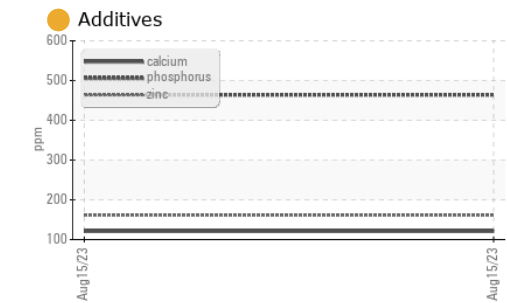
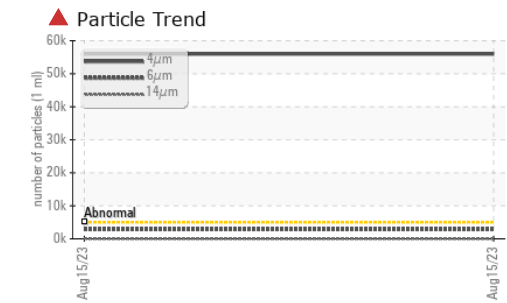
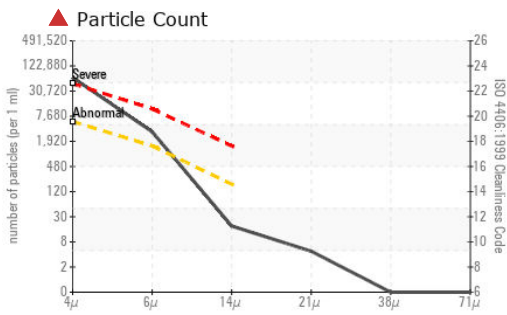
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	1	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water		WC Method		NEG	---	---
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	---	---
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	---	---

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.

Sodium	ppm	ASTM D5185(m)		4	---	---
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	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.95	0.36	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	46	52.3	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0776670
Lab Number : 02576424
Unique Number : 5629484
Test Package : IND 2 (Additional Tests: PrtCount, TAN MAN)

Received : 17 Aug 2023
Tested : 23 Aug 2023
Diagnosed : 23 Aug 2023 - Kevin Marson

Watch Tower Bible and Tract Society of Canada
 13893 Highway 7
 Georgetown, ON
 CA L7G 4S4
 Contact: Purchasing Department
 purchase.ca@jw.org
 T: (905)873-4101
 F: (905)873-4508

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.