



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



Area
SB1
Machine Id
Component
Oil
Fluid

ATLAS COPCO 1002633 SB1 Compressor (S/N A11200341)

ATLAS COPCO ROTO INJECT FLUID (8 LTR)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0896764	WC0776670	---
Sample Date		Client Info		27 May 2024	15 Aug 2023	---
Machine Age	mths	Client Info		0	0	---
Oil Age	mths	Client Info		9	8	---
Filter Age	mths	Client Info		9	8	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	2	5	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>20	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	---
Lead	ppm	ASTM D5185(m)	>20	0	<1	---
Copper	ppm	ASTM D5185(m)	>20	<1	2	---
Tin	ppm	ASTM D5185(m)	>20	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

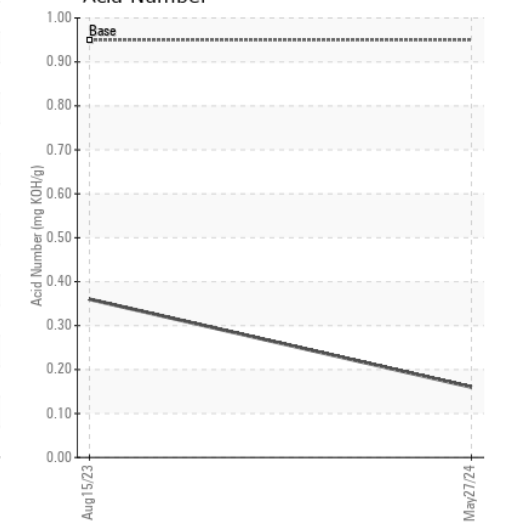
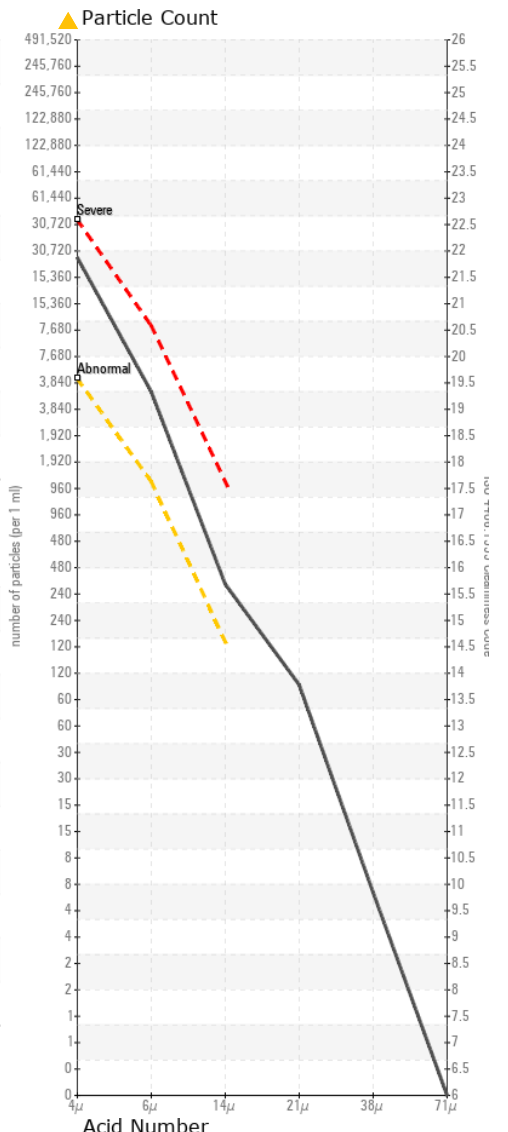
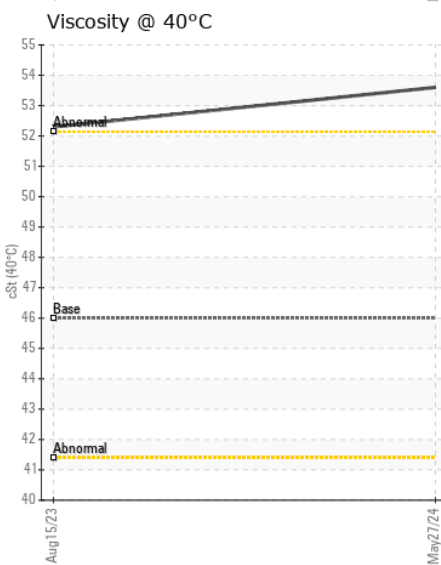
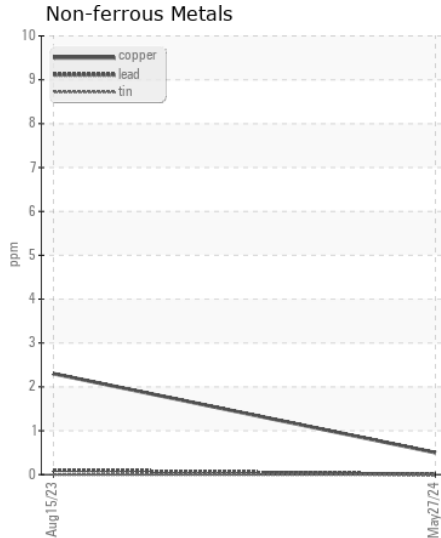
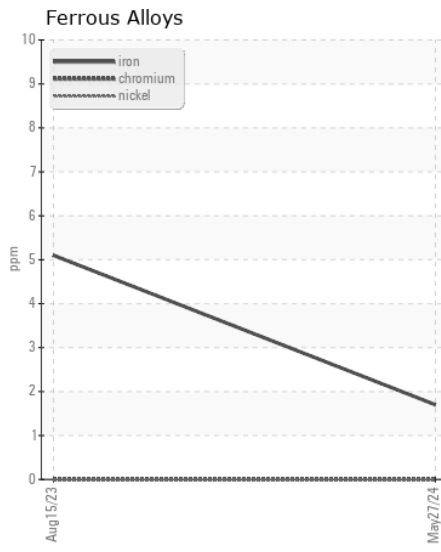
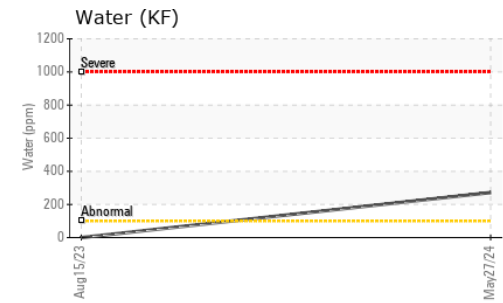
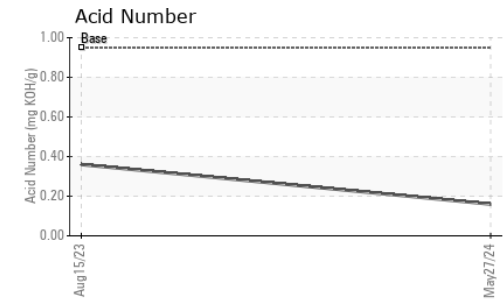
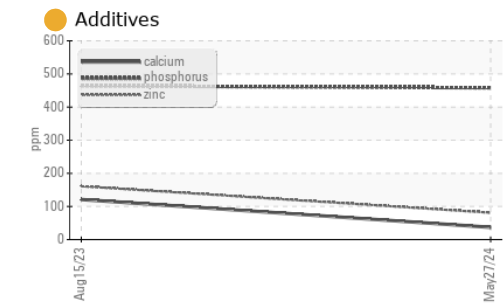
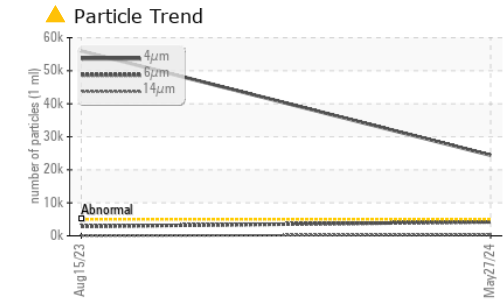
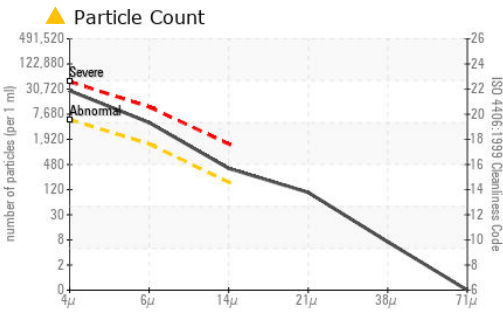
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	0	1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water	%	ASTM D6304*		0.027	---	---
ppm Water	ppm	ASTM D6304*		272	---	---
Particles >4µm		ASTM D7647	>5000	▲ 24405	▲ 55970	---
Particles >6µm		ASTM D7647	>1300	▲ 4214	▲ 2845	---
Particles >14µm		ASTM D7647	>160	▲ 340	16	---
Particles >21µm		ASTM D7647	>40	▲ 91	4	---
Particles >38µm		ASTM D7647	>10	6	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/19/16	▲ 23/19/11	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*		1%	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)		1	4	---
Boron	ppm	ASTM D5185(m)		0	<1	---
Barium	ppm	ASTM D5185(m)		0	0	---
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	● 37	● 121	---
Phosphorus	ppm	ASTM D5185(m)	510	458	464	---
Zinc	ppm	ASTM D5185(m)	590	● 81	● 161	---
Sulfur	ppm	ASTM D5185(m)		● 664	● 1322	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.95	0.16	0.36	---
Visc @ 40°C	cSt	ASTM D7279(m)	46	53.6	52.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0896764
Lab Number : 02641137
Unique Number : 5798676
Test Package : IND 2 (Additional Tests: KF, PrtCount)
Received : 11 Jun 2024
Tested : 12 Jun 2024
Diagnosed : 13 Jun 2024 - Kevin Marson

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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.