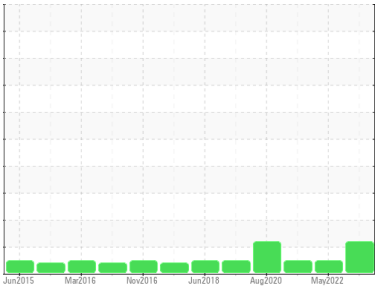
PROBLEM SUMMARY

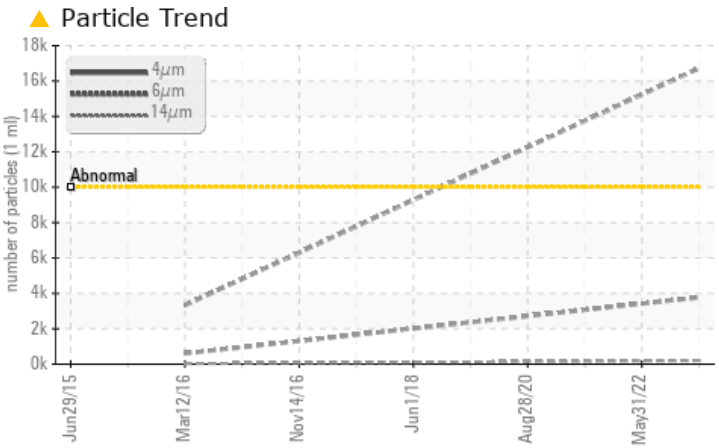
Sample Rating Trend

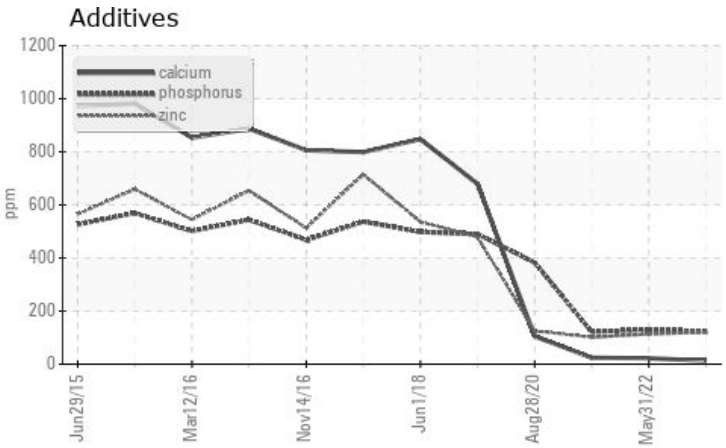


ISO

Area
F1
Machine Id
ATLAS COPCO 1025085 Compressor (2) (S/N AP1313658)
Component
Oil
Fluid
ATLAS COPCO ROTO XTEND (8 LTR)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	NORMAL
Particles >4µm		ASTM D7647	>10000	▲ **16724**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **3773**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **21/19/15**	---	---

Customer Id: WATGEO
Sample No.: WC0651215
Lab Number: 02564079
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
Change Filter	---	---	?	We recommend you service the filters on this component.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Other Action (see Note)	DONE	Jul 25 2023	?	No recommended actions

HISTORICAL DIAGNOSIS

31 May 2022 Diag: Kevin Marson

NORMAL

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

21 Jun 2021 Diag: Kevin Marson

NORMAL

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

28 Aug 2020 Diag: Kevin Marson

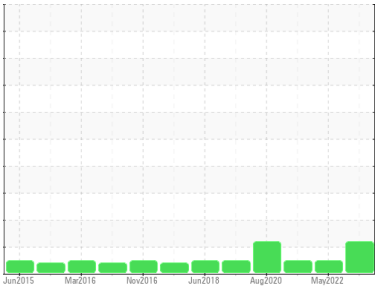
ADDITIVES

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
F1
Machine Id
ATLAS COPCO 1025085 Compressor (2) (S/N AP1313658)
Component
Oil
Fluid
ATLAS COPCO ROTO XTEND (8 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0651215**	WC0651222	WC0506364
Sample Date		Client Info		**12 Jun 2023**	31 May 2022	21 Jun 2021
Machine Age		Client Info		**25278**	26632	25965
Oil Age		Client Info		**1906**	3263	2596
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ATTENTION**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	0	0
Iron	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Chromium	ppm	ASTM D5185(m)		**0**	0	0
Nickel	ppm	ASTM D5185(m)		**0**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	<1
Aluminum	ppm	ASTM D5185(m)		**1**	1	<1
Lead	ppm	ASTM D5185(m)		**0**	0	0
Copper	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)		**0**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	<1	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

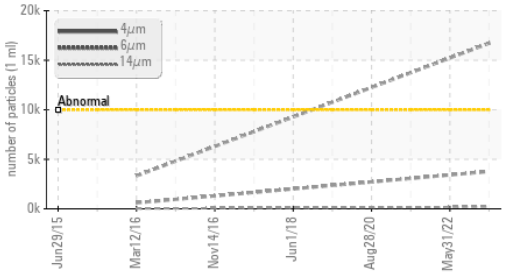
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	<1
Barium	ppm	ASTM D5185(m)		**<1**	<1	<1
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**1**	2	2
Calcium	ppm	ASTM D5185(m)		**13**	22	24
Phosphorus	ppm	ASTM D5185(m)		**123**	130	121
Zinc	ppm	ASTM D5185(m)		**120**	113	101
Sulfur	ppm	ASTM D5185(m)		**274**	285	294
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	**1**	0	<1
Sodium	ppm	ASTM D5185(m)		**6**	5	6
Potassium	ppm	ASTM D5185(m)	>20	**0**	<1	<1
Water	%	ASTM D6304*	>0.1	**0.001**	0.001	---
ppm Water	ppm	ASTM D6304*	>1000	**7.7**	10.4	---

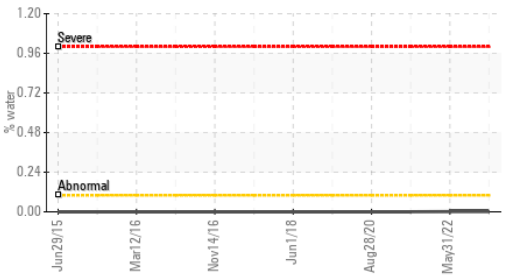
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**16724**	---	---
Particles >6µm		ASTM D7647	>2500	**3773**	---	---
Particles >14µm		ASTM D7647	>320	**198**	---	---
Particles >21µm		ASTM D7647	>80	**41**	---	---
Particles >38µm		ASTM D7647	>20	**1**	---	---
Particles >71µm		ASTM D7647	>4	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**21/19/15**	---	---

OIL ANALYSIS REPORT

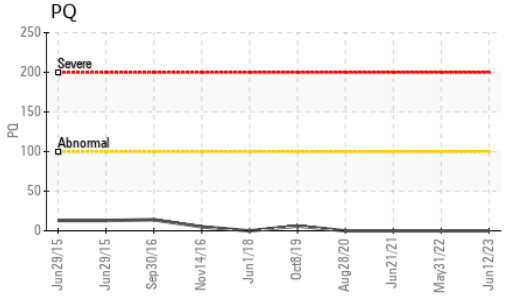
Particle Trend



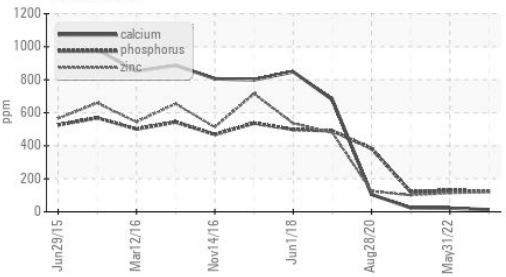
Water



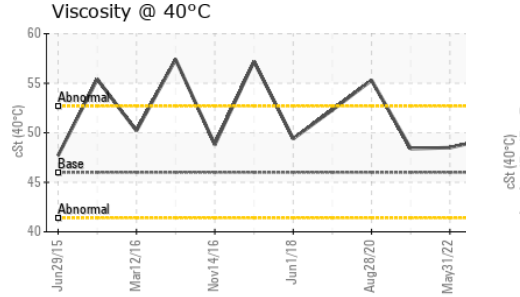
PQ



Additives



Viscosity @ 40°C

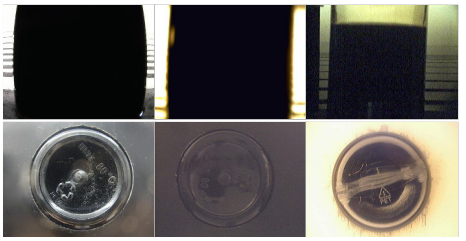


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.14	**0.25**	0.20	0.26

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

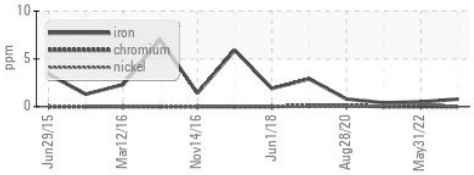
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	**49.4**	48.5	48.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

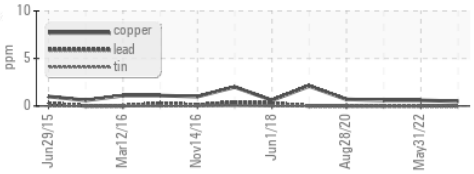


GRAPHS

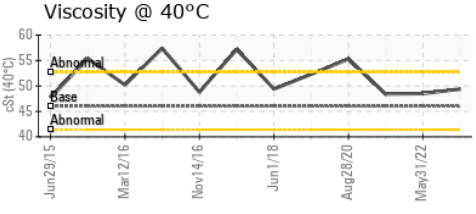
Ferrous Alloys



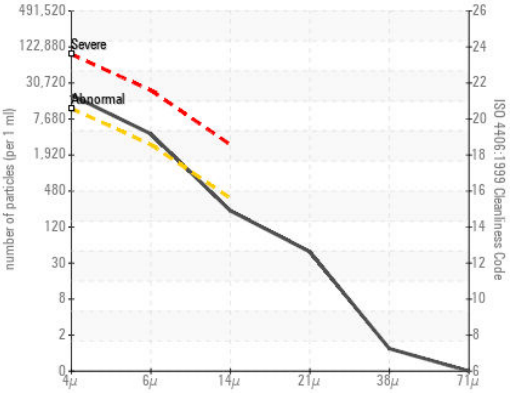
Non-ferrous Metals



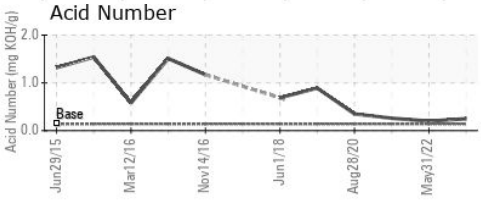
Viscosity @ 40°C



Particle Count



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. : WC0651215 **Received** : 14 Jun 2023 13893 Highway 7
Lab Number : 02564079 **Diagnosed** : 15 Jun 2023 Georgetown, ON
Unique Number : 5593120 **Diagnostician** : Kevin Marson CA L7G 4S4
Test Package : IND 2 (Additional Tests: KF, PQ, PRTCOUNT, TAN Man) 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