



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
ALTAIR 30 [418163]
Machine Id
ATLAS COPCO UTY758601 - ENGINEERED DEVICES
Component
Compressor

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron level is severe. The chromium level is severe.

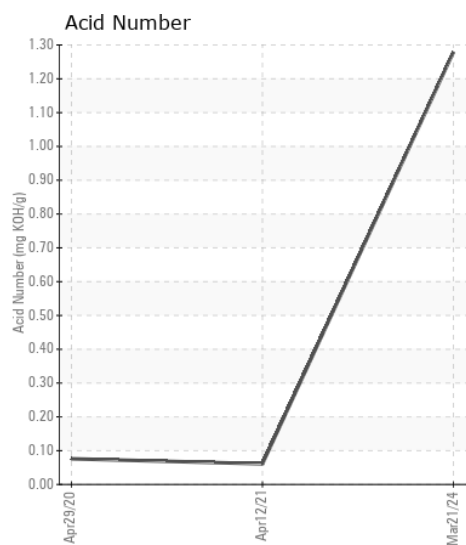
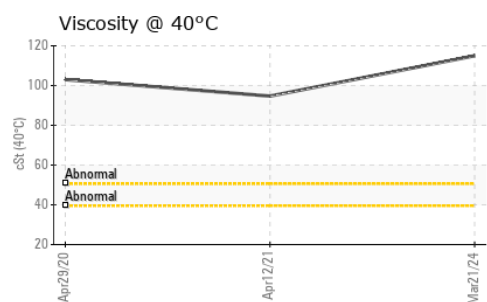
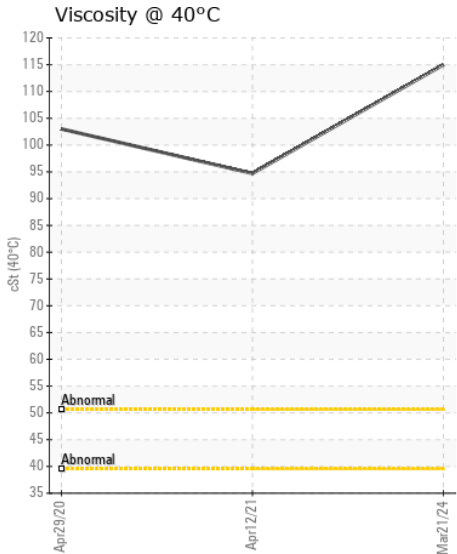
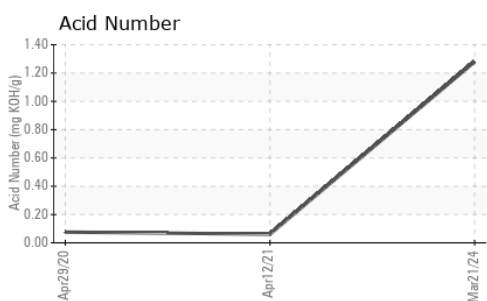
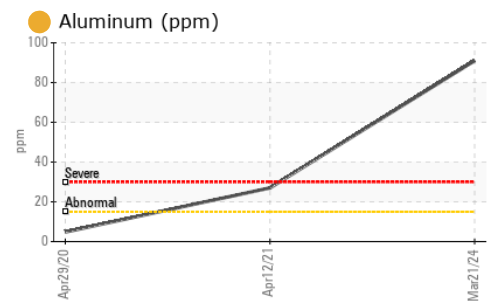
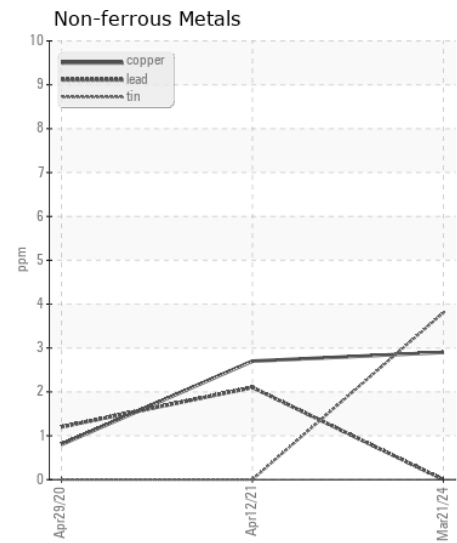
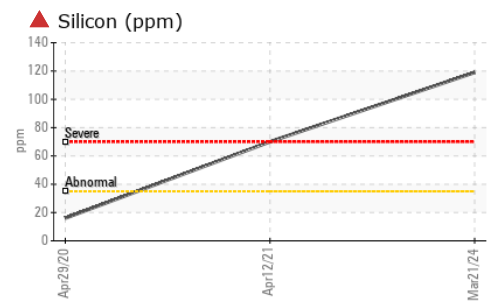
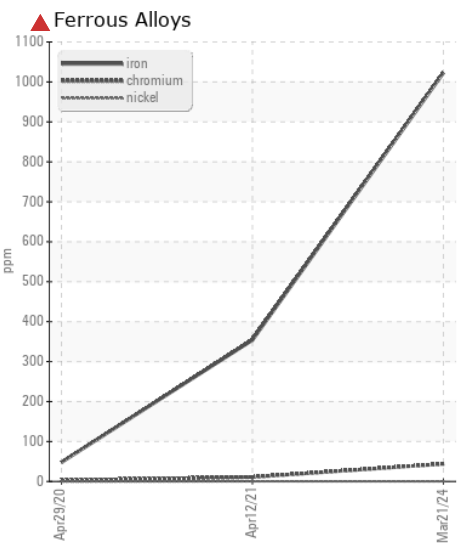
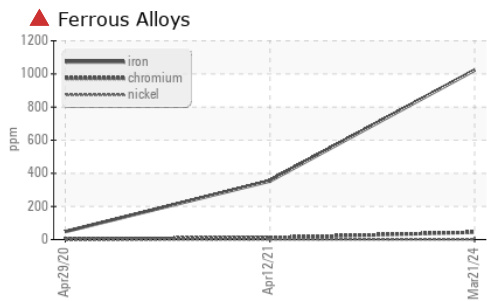
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate amount of visible silt present in the sample.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		UCH06125766	UCH05228143	UCH04975418
Sample Date		Client Info		21 Mar 2024	12 Apr 2021	29 Apr 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>50	▲ 1023	▲ 354	48
Chromium	ppm	ASTM D5185m	>5	▲ 44	▲ 11	3
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		3	1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>15	● 91	● 27	5
Lead	ppm	ASTM D5185m	>65	0	2	1
Copper	ppm	ASTM D5185m	>65	3	3	<1
Tin	ppm	ASTM D5185m	>10	4	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	▲ 119	▲ 70	16
Potassium	ppm	ASTM D5185m	>20	7	16	<1
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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
Sodium	ppm	ASTM D5185m		26	22	30
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		9	3	<1
Magnesium	ppm	ASTM D5185m		14	37	<1
Calcium	ppm	ASTM D5185m		176	250	15
Phosphorus	ppm	ASTM D5185m		53	105	42
Zinc	ppm	ASTM D5185m		0	69	6
Sulfur	ppm	ASTM D5185m		299	716	1066
Acid Number (AN)	mg KOH/g	ASTM D8045		1.279	0.061	0.076
Visc @ 40°C	cSt	ASTM D445		115	94.7	103.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH06125766 **Received** : 21 Mar 2024
Lab Number : 06125766 **Tested** : 26 Mar 2024
Unique Number : 10939917 **Diagnosed** : 26 Mar 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)