



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
ATLAS COPCO API673164 - CARPENTER
 Component
Compressor
 Fluid
QUINCY QUINSYN (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		QUC0000618	QUC0000734	QUC0000039
Sample Date		Client Info		14 May 2024	23 Feb 2024	14 Sep 2022
Machine Age	hrs	Client Info		18879	17139	9614
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Filter Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	<1	1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	0	0	<1
Lead	ppm	ASTM D5185m	>65	0	0	0
Copper	ppm	ASTM D5185m	>65	0	1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

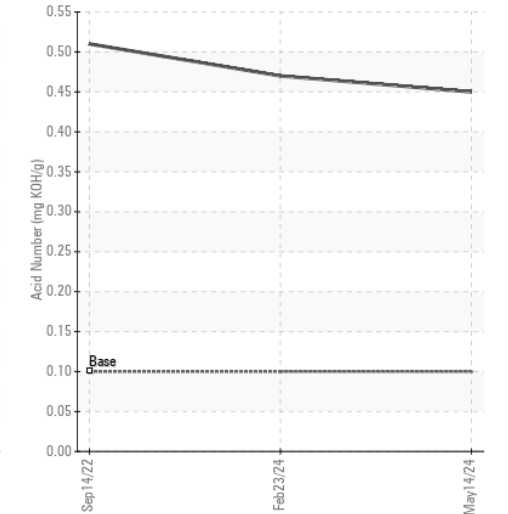
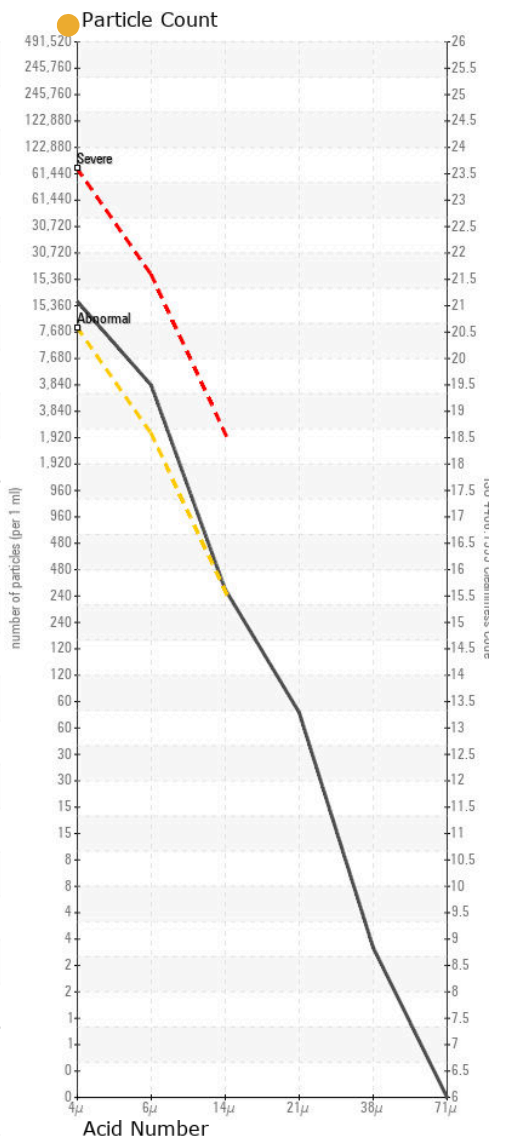
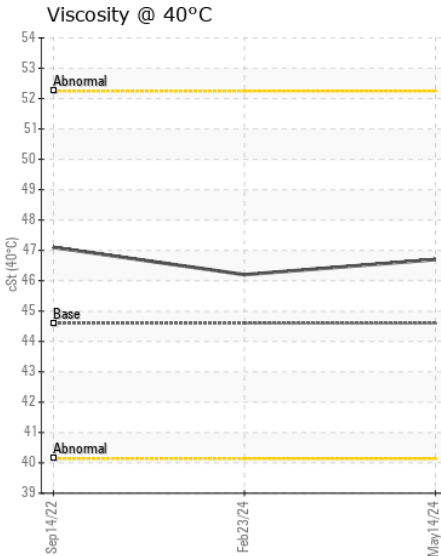
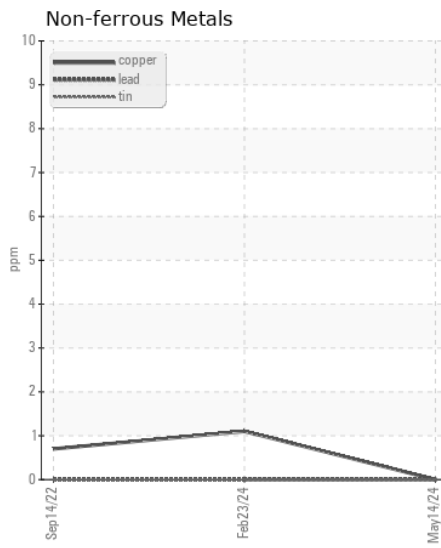
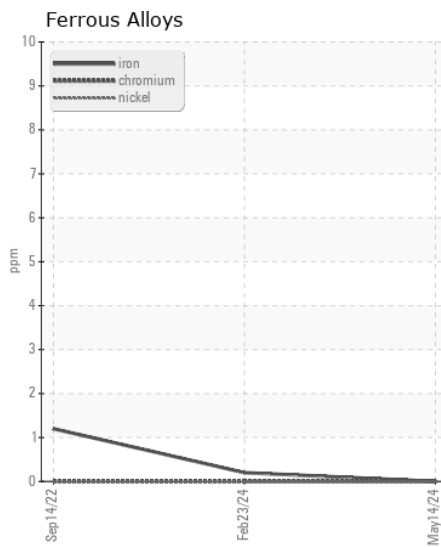
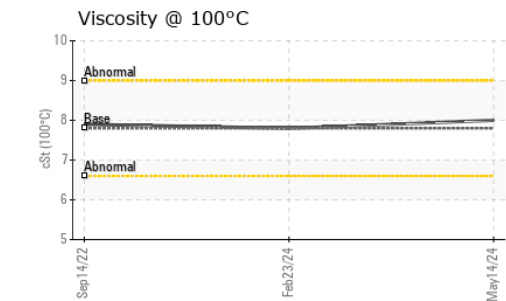
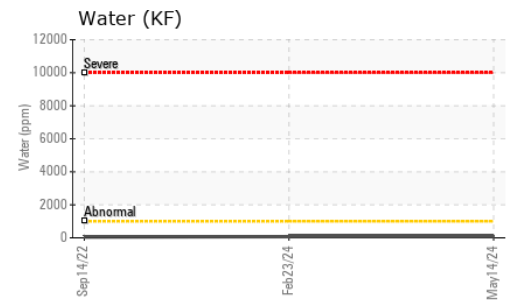
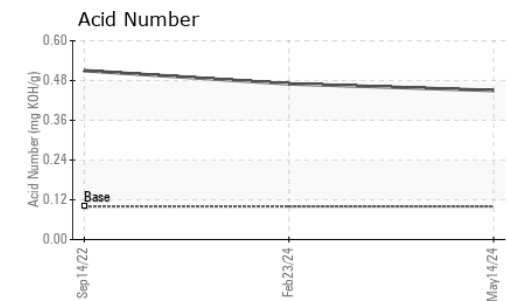
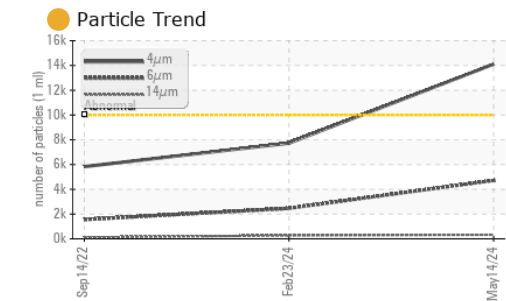
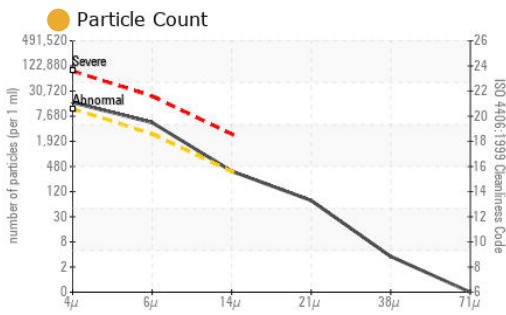
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>35	0	<1	2
Potassium	ppm	ASTM D5185m	>20	0	1	2
Water	%	ASTM D6304	>0.1	0.007	0.007	0.004
ppm Water	ppm	ASTM D6304	>1000	75	71	48.7
Particles >4µm		ASTM D7647	>10000	14106	7730	5831
Particles >6µm		ASTM D7647	>2500	4713	2460	1556
Particles >14µm		ASTM D7647	>320	325	274	112
Particles >21µm		ASTM D7647	>80	65	72	20
Particles >38µm		ASTM D7647	>20	3	3	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/19/16	20/18/15	20/18/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	5	4
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	2
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		59	67	24
Zinc	ppm	ASTM D5185m		200	115	84
Sulfur	ppm	ASTM D5185m		511	672	50
Acid Number (AN)	mg KOH/g	ASTM D8045	.10	0.45	0.47	0.51
Visc @ 40°C	cSt	ASTM D445	44.6	46.7	46.2	47.1
Visc @ 100°C	cSt	ASTM D445	7.8	8.0	7.8	7.9
Viscosity Index (VI)	Scale	ASTM D2270	132	143	138	138



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : QUC0000618 **Received** : 14 Jun 2024
Lab Number : 06210136 **Tested** : 18 Jun 2024
Unique Number : 11083000 **Diagnosed** : 18 Jun 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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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)