



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
NORMAL
SEVERE

Machine Id
ATLAS COPCO TYSGOO 3 (S/N APF172836)

Component
Air Compressor
Fluid
USPI FG AIR 46 (--- GAL)

RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		USP246524	USPM19592	USPM26406
Sample Date		Client Info		23 Jun 2024	25 Apr 2024	16 Jan 2024
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	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

An increase in the copper and zinc levels is noted.

Iron	ppm	ASTM D5185m	>70	3	10	0
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>6	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	0	<1
Lead	ppm	ASTM D5185m	>20	1	0	0
Copper	ppm	ASTM D5185m	>80	32	2	3
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

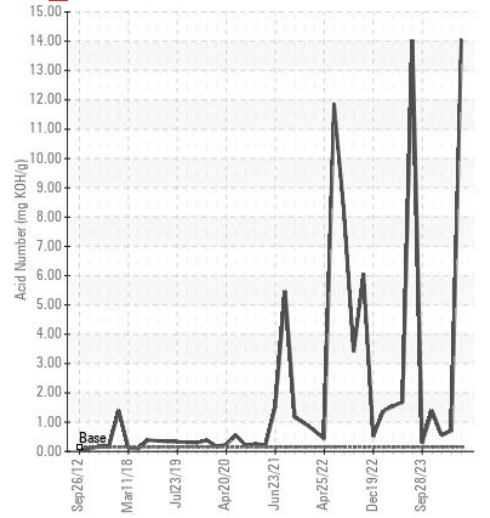
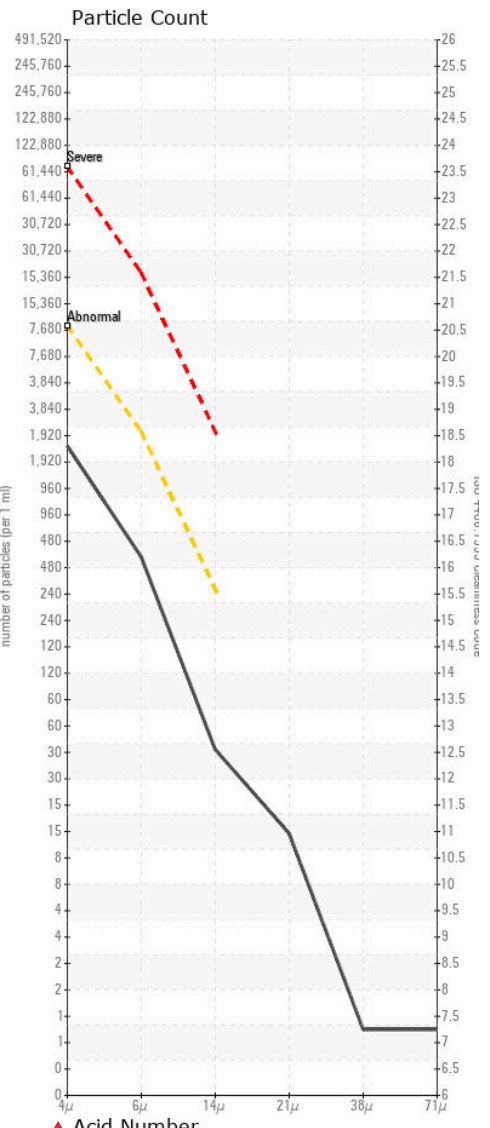
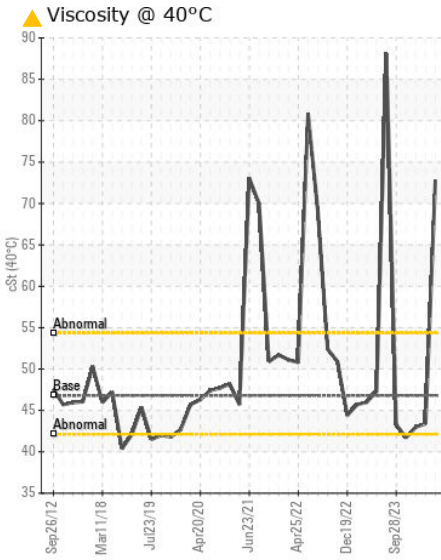
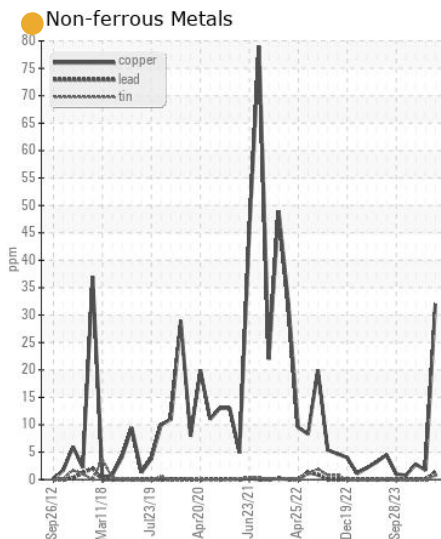
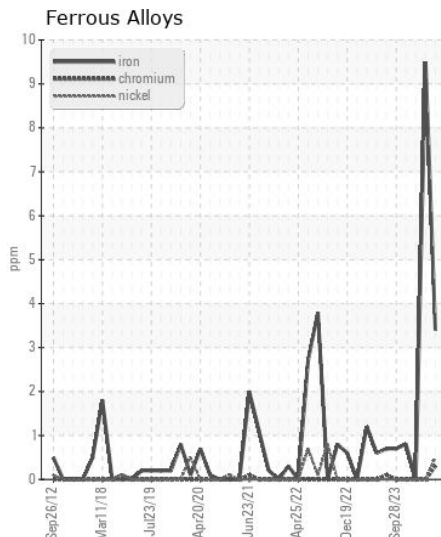
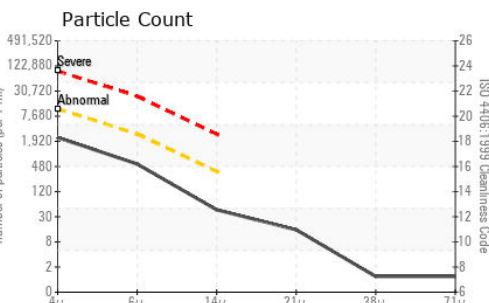
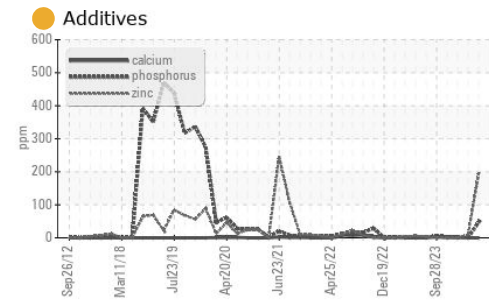
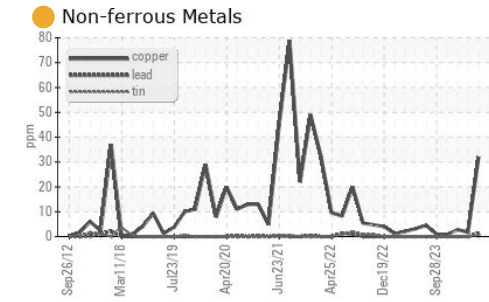
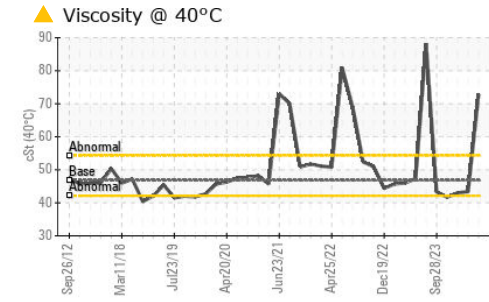
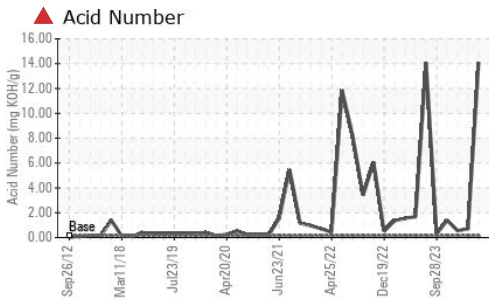
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>12	1	<1	0
Potassium	ppm	ASTM D5185m	>20	4	0	0
Water	%	ASTM D6304	>0.1	0.087	0.021	0.007
ppm Water	ppm	ASTM D6304	>1000	874	214	73
Particles >4µm		ASTM D7647	>10000	2073	422	329
Particles >6µm		ASTM D7647	>2500	484	82	112
Particles >14µm		ASTM D7647	>320	39	8	21
Particles >21µm		ASTM D7647	>80	13	2	6
Particles >38µm		ASTM D7647	>20	1	0	1
Particles >71µm		ASTM D7647	>4	1	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/12	16/14/10	16/14/12
Silt	scalar	*Visual	NONE	NONE	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

FLUID CONDITION

The AN level is above the recommended limit. The oil viscosity is higher than normal. Confirmed.

Sodium	ppm	ASTM D5185m		9	0	0
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	4	0	<1
Calcium	ppm	ASTM D5185m	0	0	0	1
Phosphorus	ppm	ASTM D5185m	0	47	0	<1
Zinc	ppm	ASTM D5185m	0	191	10	0
Sulfur	ppm	ASTM D5185m	0	0	0	9
Acid Number (AN)	mg KOH/g	ASTM D8045	0.15	14.05	0.71	0.55
Visc @ 40°C	cSt	ASTM D445	46.8	72.8	43.4	43.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP246524
Lab Number : 06218807
Unique Number : 11097004
Test Package : IND 2
Received : 24 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Doug Bogart

TYSON -GOODLETTSVILLE-USP
 201 CARTWRIGHT STREET
 GOODLETTSVILLE, TN
 US 37072
 Contact: JOHN BAKER

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)
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