



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
[W68302]

Machine Id
ATLAS COPCO D60 G19SED0249

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (120 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W68302)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0219680	JR0162636	JR0155907
Sample Date		Client Info		27 Jun 2024	12 Jun 2023	24 Feb 2023
Machine Age	hrs	Client Info		9048	1725	6627
Oil Age	hrs	Client Info		8561	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				ATTENTION	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		18	8	14
Iron	ppm	ASTM D5185m	>20	3	1	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	<1	<1	0
Tin	ppm	ASTM D5185m	>10	<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

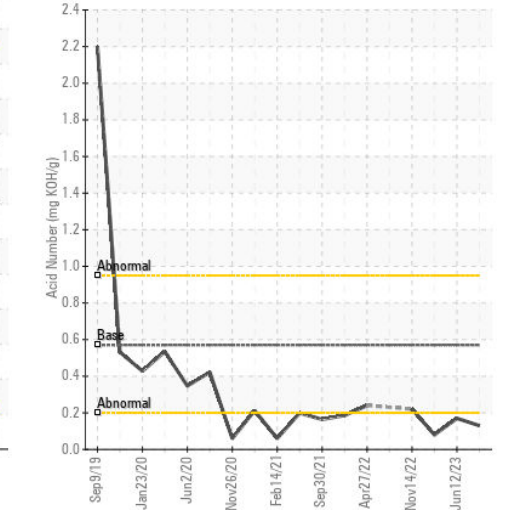
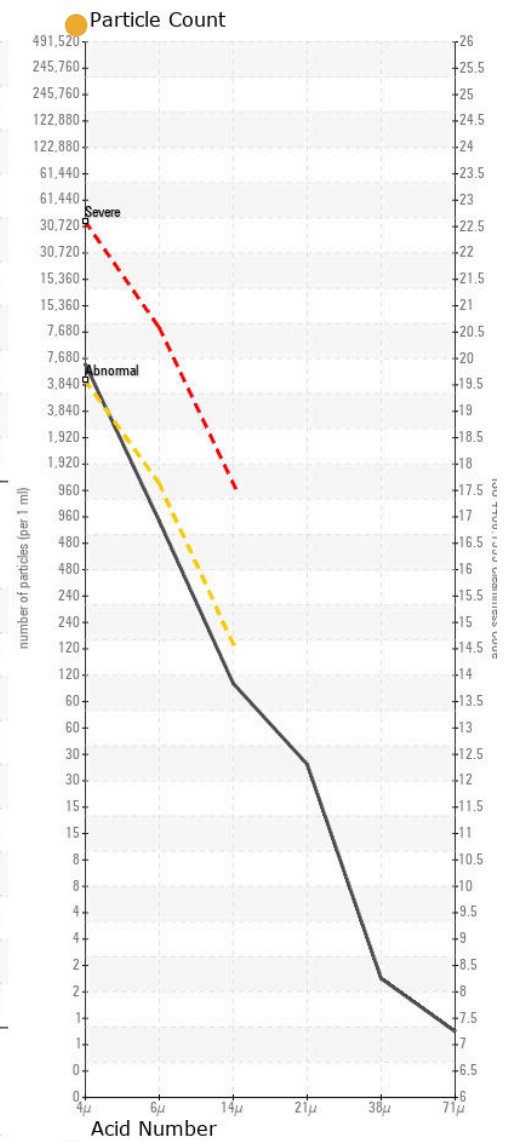
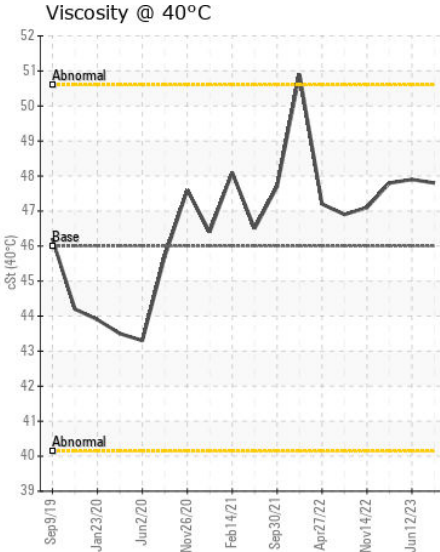
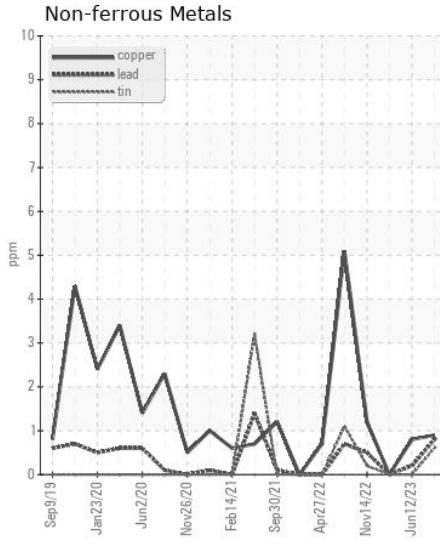
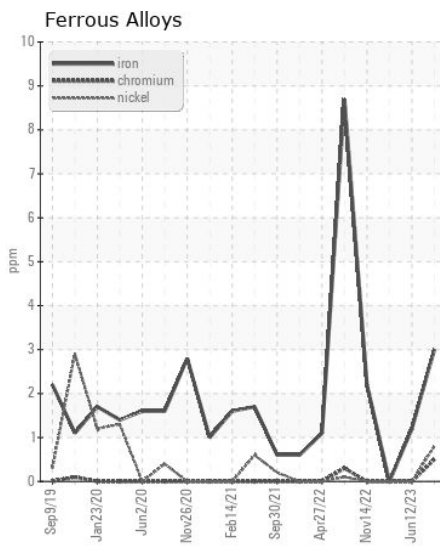
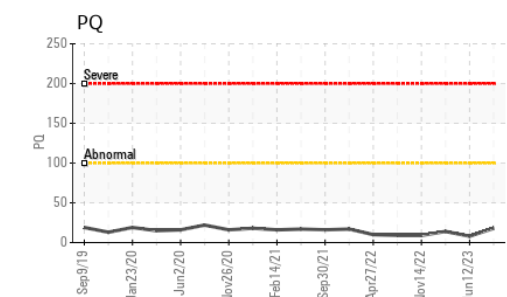
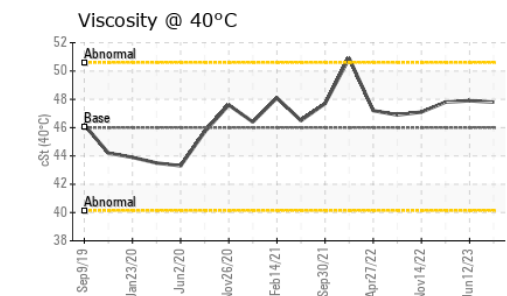
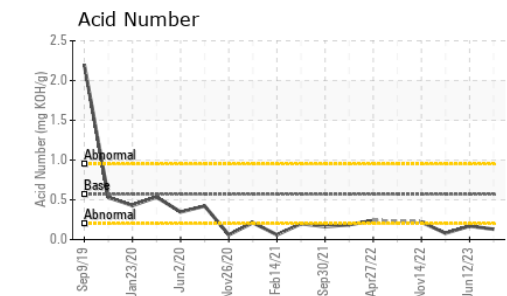
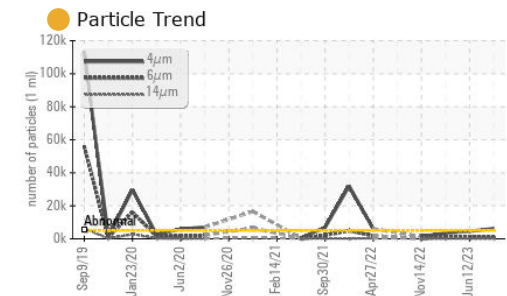
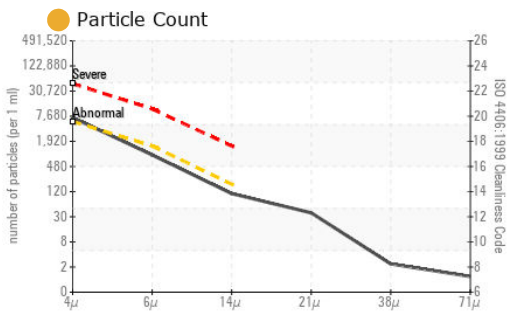
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	2	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	6206	4576	3450
Particles >6µm		ASTM D7647	>1300	798	1202	1326
Particles >14µm		ASTM D7647	>160	95	71	124
Particles >21µm		ASTM D7647	>40	33	13	21
Particles >38µm		ASTM D7647	>10	2	0	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/17/14	19/17/13	19/18/14
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 acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		0	0	0
Boron	ppm	ASTM D5185m	5	<1	2	2
Barium	ppm	ASTM D5185m	5	1	2	0
Molybdenum	ppm	ASTM D5185m	5	2	4	4
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	4	17	10
Calcium	ppm	ASTM D5185m	200	42	42	30
Phosphorus	ppm	ASTM D5185m	300	523	555	496
Zinc	ppm	ASTM D5185m	370	33	57	33
Sulfur	ppm	ASTM D5185m	2500	70	158	0
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.13	0.17	0.08
Visc @ 40°C	cSt	ASTM D445	46	47.8	47.9	47.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0219680

Lab Number : 06223436

Unique Number : 11101633

Test Package : CONST (Additional Tests: PQ)

Received : 28 Jun 2024

Tested : 01 Jul 2024

Diagnosed : 01 Jul 2024 - Don Baldridge

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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