WEAR CONTAMINATION FLUID CONDITION

NORMAL
ABNORMAL
ATTENTION

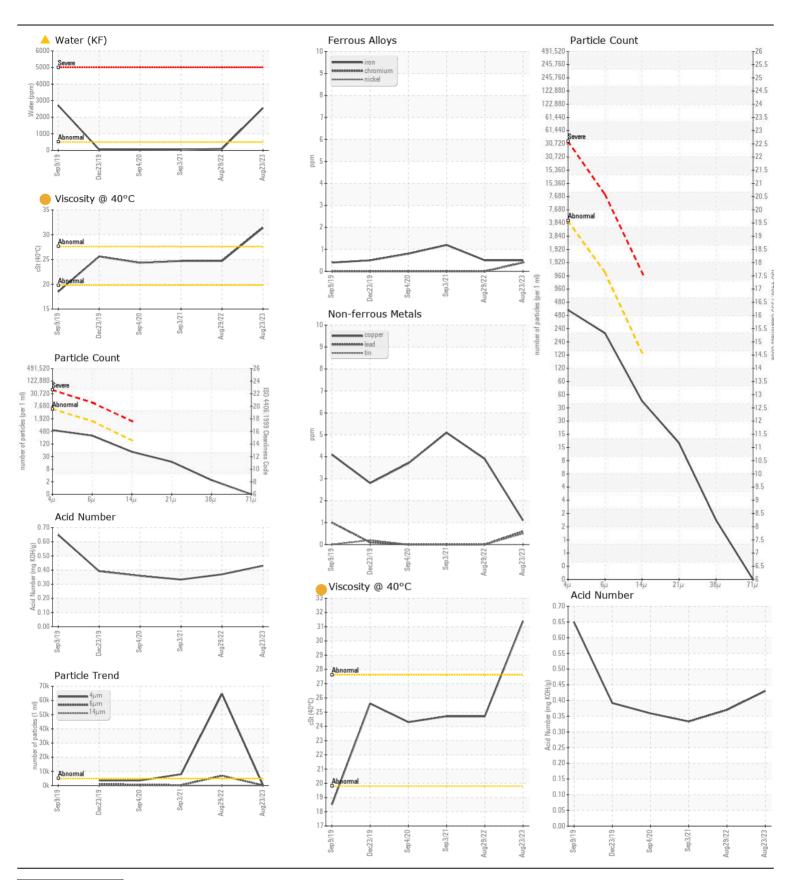
Machine Id

ALTEC 348

Component

Hydraulic System
Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		ST43593	ST42162	ST42469
	Sample Date		Client Info		23 Aug 2023	29 Aug 2022	03 Sep 202
	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				ABNORMAL	ABNORMAL	ATTENTIO
WEAR	Iron	ppm	ASTM D5185m	>20	<1	<1	1
VEAIL	Chromium	ppm	ASTM D5185m		<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	0	0
	Lead	ppm	ASTM D5185m	>20	<1	0	0
	Copper	ppm	ASTM D5185m	>20	1	4	5
	Tin	ppm	ASTM D5185m	>20	<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	Silicon	ppm	ASTM D5185m	\15	2	0	0
CONTAIVIINATION	Potassium	ppm	ASTM D5185m		<1	0	0
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.	Water	%	ASTM D6304		▲ 0.255	0.009	0.004
	ppm Water	ppm	ASTM D6304		<u>△</u> 2550	91.8	43.4
	Particles >4µm	ρρ	ASTM D7647		487	<u>△</u> 64670	8001
	Particles >6µm		ASTM D7647		265	△ 6986	336
	Particles >14µm		ASTM D7647	>160	45	101	21
	Particles >21µm		ASTM D7647	>40	15	33	5
	Particles >38µm		ASTM D7647	>10	2	5	1
	Particles >71μm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/13	<u>23/20/14</u>	0/16/1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	^Visual	>0.05	0.2%	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	<1
	Boron	ppm	ASTM D5185m		0	0	0
Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	0
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		52	0	0
	Calcium	ppm	ASTM D5185m		8	38	47
	Phosphorus	ppm	ASTM D5185m		218	478	356
	Zinc	ppm	ASTM D5185m		323	330	375
	Sulfur	ppm	ASTM D5185m		1137	956	852
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.37	0.333
	Visc @ 40°C	cSt	ASTM D445		31.4	24.7	24.7





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : ST43593 Lab Number : 06223498

Unique Number: 11101695

Received **Tested** Diagnosed

: 28 Jun 2024 : 03 Jul 2024

: 03 Jul 2024 - Jonathan Hester

COBB EMC 1000 EMC PKWY MARIETTA, GA US 30060 Contact: WADE HARRIS wade.harris@cobbemc.com

Test Package : IND 2 (Additional Tests: KF) 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)

F: Contact/Location: WADE HARRIS - COBMARGA

T: (678)355-3379