



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[SWO-071763]
 Machine Id
VOLVO A60H 340039
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP450917	VCP435399	VCP428978
Sample Date		Client Info		07 May 2024	18 Jan 2024	27 Sep 2023
Machine Age	hrs	Client Info		9022	8521	8052
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	10	7	12
Chromium	ppm	ASTM D5185m	>10	1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	<1
Lead	ppm	ASTM D5185m	>10	1	<1	2
Copper	ppm	ASTM D5185m	>75	3	2	3
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

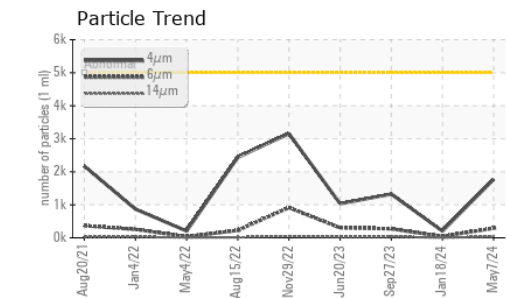
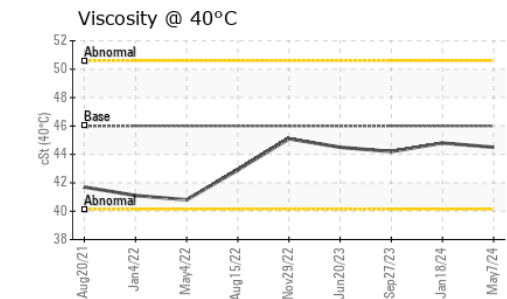
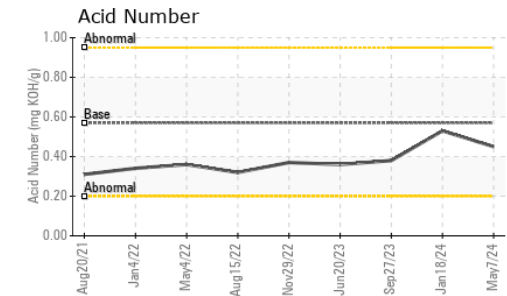
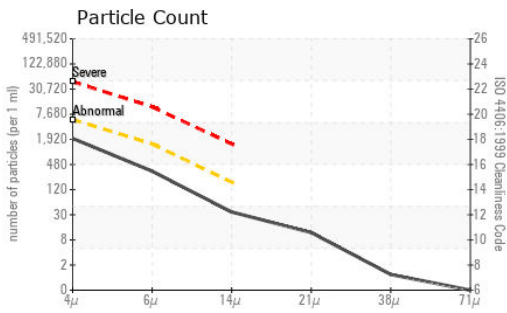
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	3	1	3
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1769	204	1324
Particles >6µm		ASTM D7647	>1300	292	42	273
Particles >14µm		ASTM D7647	>160	31	5	30
Particles >21µm		ASTM D7647	>40	10	2	10
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/12	15/13/10	18/15/12
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 acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	0	<1
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	1	1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	23	8	5
Calcium	ppm	ASTM D5185m	200	102	111	75
Phosphorus	ppm	ASTM D5185m	300	393	325	323
Zinc	ppm	ASTM D5185m	370	484	452	451
Sulfur	ppm	ASTM D5185m	2500	2130	2006	1777
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.45	0.53	0.38
Visc @ 40°C	cSt	ASTM D445	46	44.5	44.8	44.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP450917
Lab Number : 06175402
Unique Number : 11021455
Test Package : MOB 2

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 14 May 2024 - Don Baldrige

SAIIA CONSTRUCTION LLC
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 BIRMINGHAM, AL
 US 35207

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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)

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