



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40G 352198
Component
Hydraulic System
Fluid
MOBIL 10W (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP435153	VCP378565	VCP312688
Sample Date		Client Info		02 Apr 2024	14 Dec 2023	06 Sep 2023
Machine Age	hrs	Client Info		5479	4956	4393
Oil Age	hrs	Client Info		1581	1058	495
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	5	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>20	2	2	2
Copper	ppm	ASTM D5185m	>150	3	3	2
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

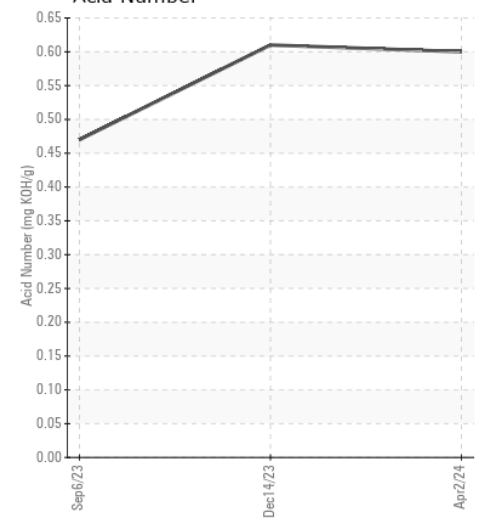
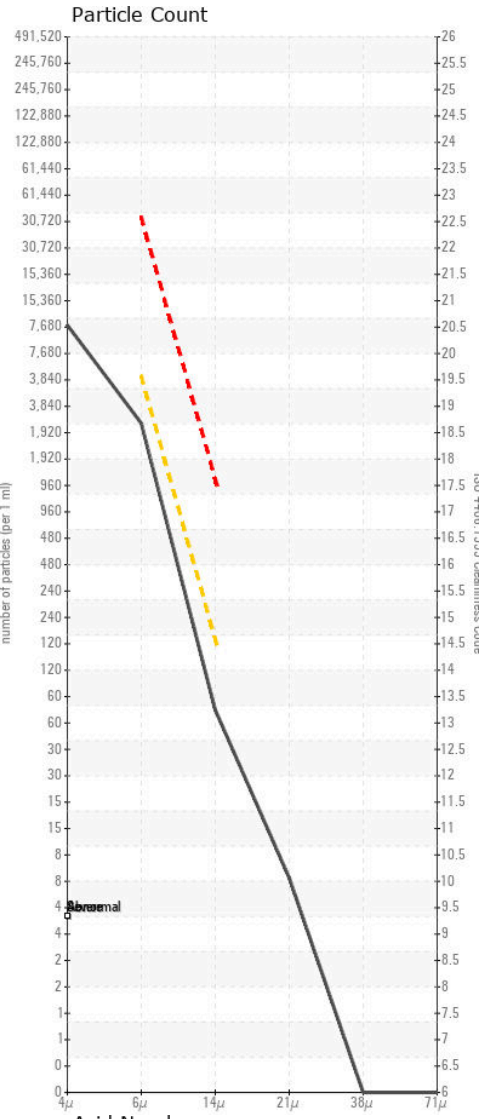
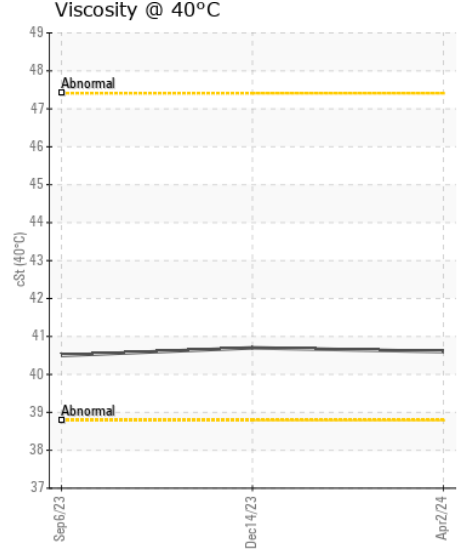
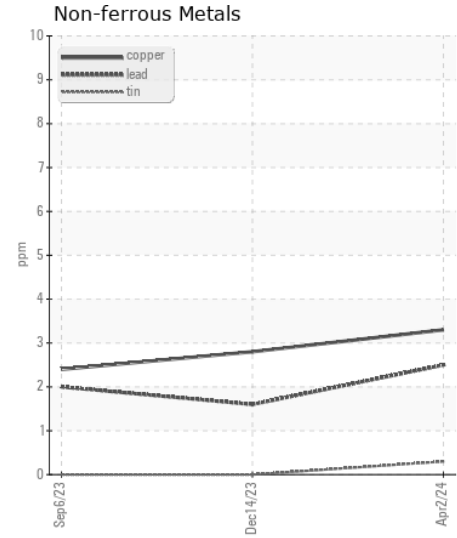
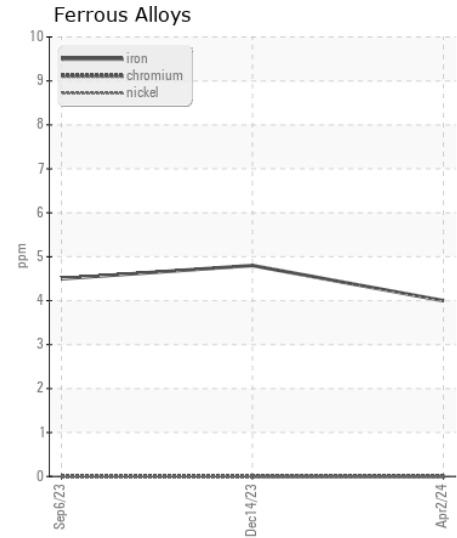
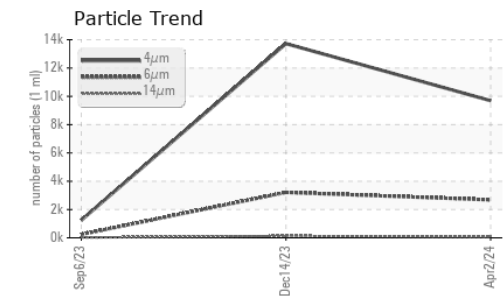
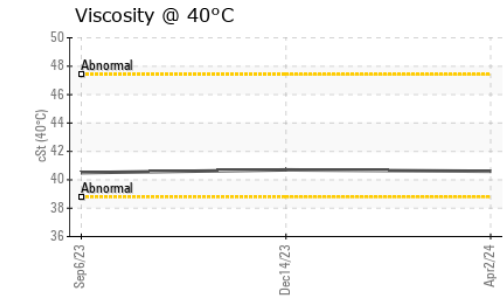
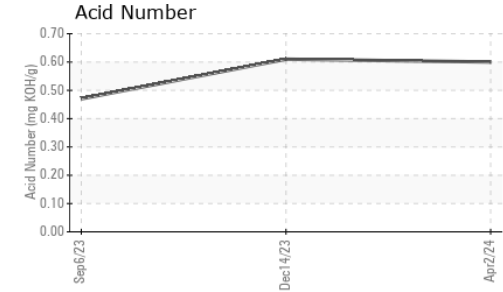
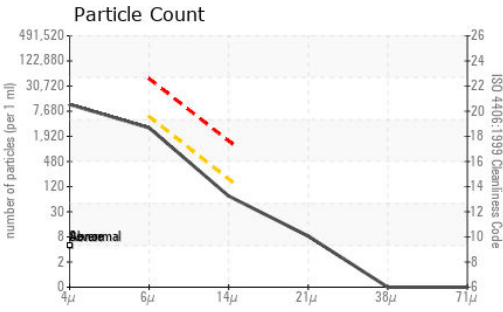
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	12	11	11
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		9689	13724	1250
Particles >6µm		ASTM D7647	>5000	2682	3211	237
Particles >14µm		ASTM D7647	>160	63	133	18
Particles >21µm		ASTM D7647	>40	7	24	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	20/19/13	21/19/14	17/15/11
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 suitable for further service.

Sodium	ppm	ASTM D5185m		4	3	2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		14	12	15
Calcium	ppm	ASTM D5185m		1265	1326	1219
Phosphorus	ppm	ASTM D5185m		561	542	525
Zinc	ppm	ASTM D5185m		664	668	636
Sulfur	ppm	ASTM D5185m		7714	6261	6054
Acid Number (AN)	mg KOH/g	ASTM D8045		0.60	0.61	0.47
Visc @ 40°C	cSt	ASTM D445		40.6	40.7	40.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP435153 **Received** : 19 Apr 2024
Lab Number : 06154269 **Tested** : 22 Apr 2024
Unique Number : 10989692 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : MOB 2

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Certificate L2367
 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)