



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40F 12386
Component
Hydraulic System
Fluid
MOBIL 10W (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP447723	VCP435807	VCP404901
Sample Date		Client Info		18 Jun 2024	22 Feb 2024	22 Mar 2023
Machine Age	hrs	Client Info		13301	12894	10781
Oil Age	hrs	Client Info		1919	1512	1398
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	3	1	3
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>150	<1	<1	1
Tin	ppm	ASTM D5185m	>20	0	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

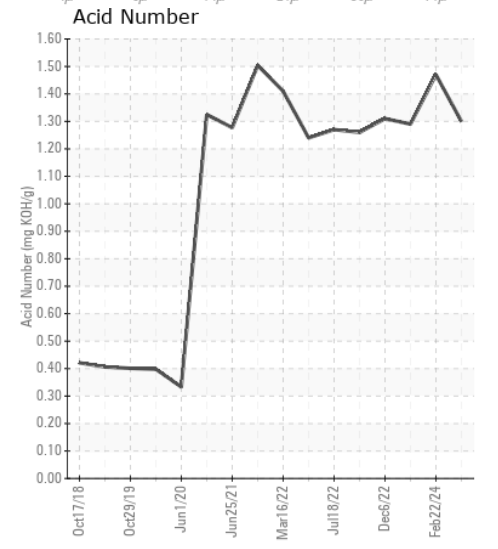
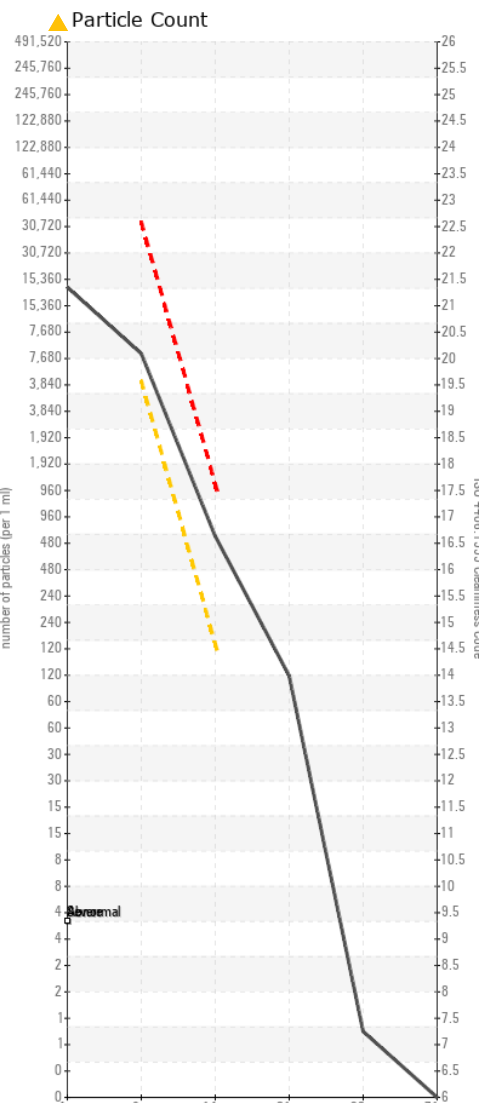
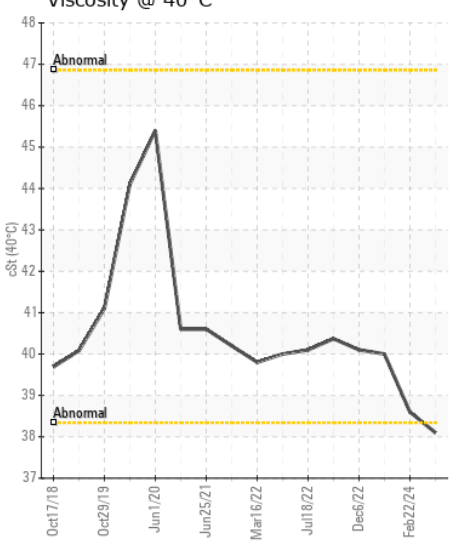
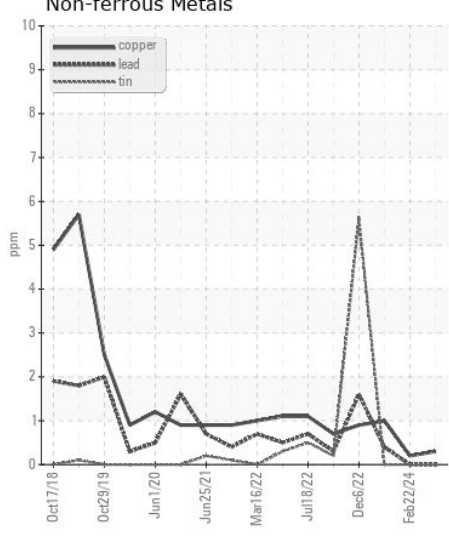
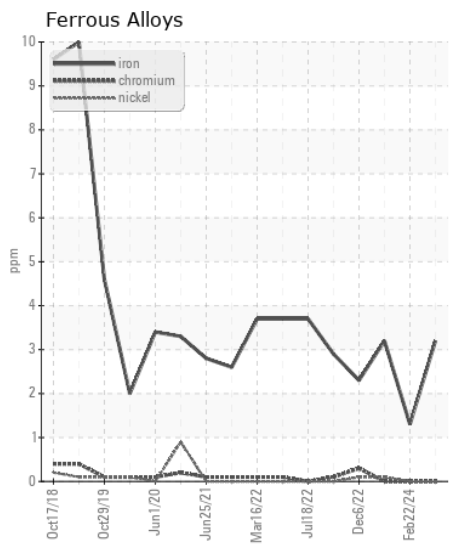
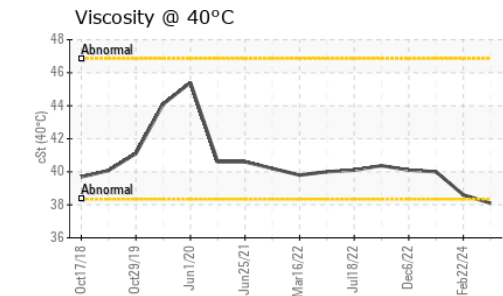
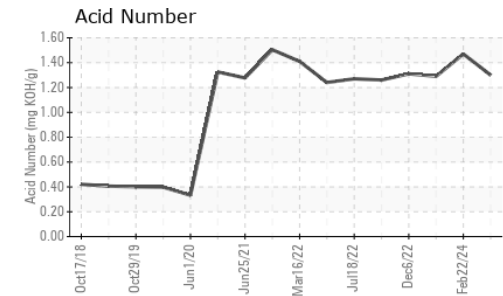
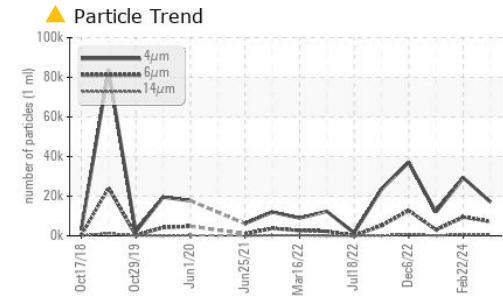
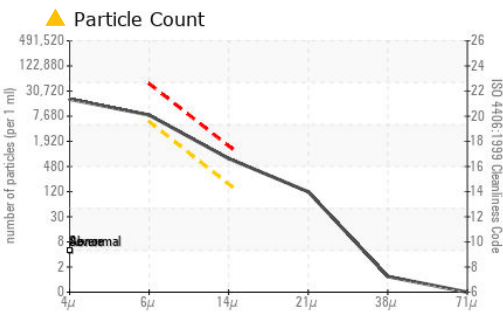
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	12	10	13
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		17009	29287	12020
Particles >6µm		ASTM D7647	>5000	▲ 7129	▲ 9435	3029
Particles >14µm		ASTM D7647	>160	▲ 653	▲ 596	101
Particles >21µm		ASTM D7647	>40	▲ 105	▲ 116	13
Particles >38µm		ASTM D7647	>10	1	4	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	▲ 21/20/17	▲ 22/20/16	21/19/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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		2	2	0
Boron	ppm	ASTM D5185m		1	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		21	20	17
Calcium	ppm	ASTM D5185m		3304	3239	3109
Phosphorus	ppm	ASTM D5185m		901	875	929
Zinc	ppm	ASTM D5185m		1028	1017	1128
Sulfur	ppm	ASTM D5185m		7867	7715	6910
Acid Number (AN)	mg KOH/g	ASTM D8045		1.30	1.47	1.29
Visc @ 40°C	cSt	ASTM D445		38.1	38.6	40.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP447723
Lab Number : 06227333
Unique Number : 11110826
Test Package : MOB 2
Received : 03 Jul 2024
Tested : 05 Jul 2024
Diagnosed : 06 Jul 2024 - Don Baldridge

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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)