



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**VOLVO A40F 12382**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL 10W (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### WEAR

All component wear rates are normal.

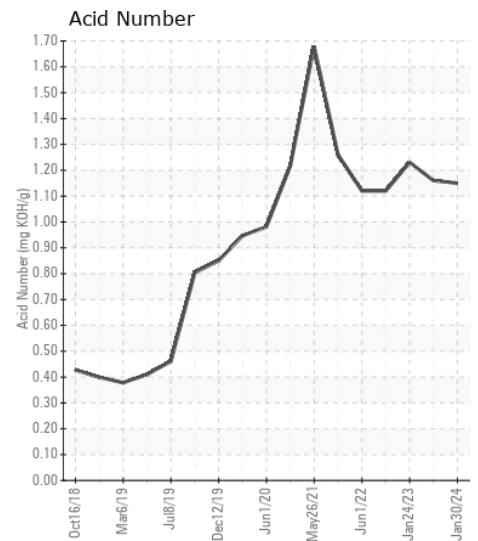
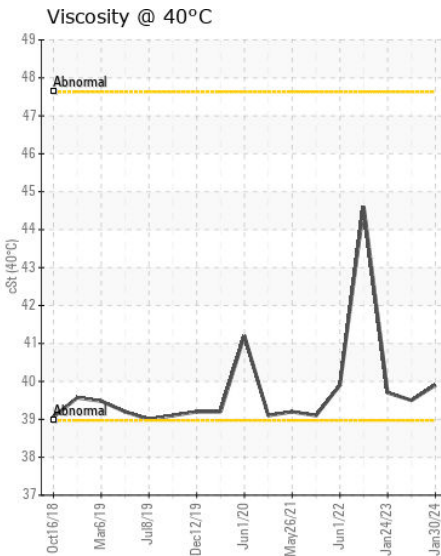
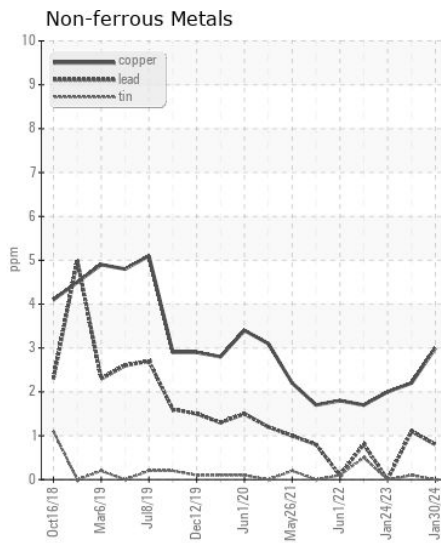
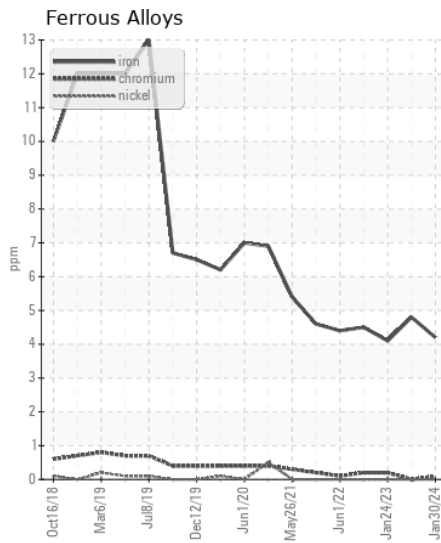
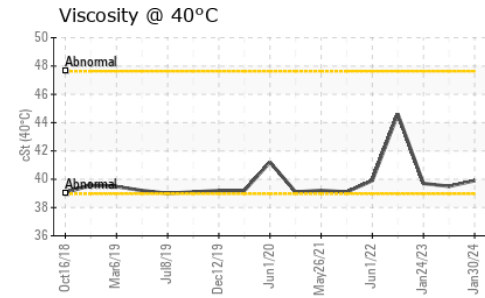
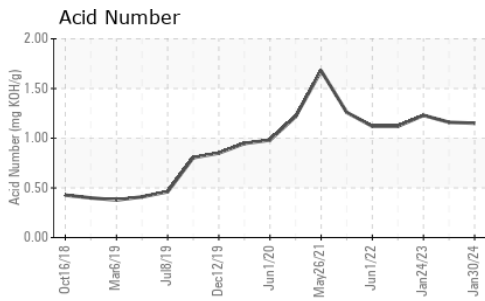
### CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP307521</b>	VCP312564	VCP385202
Sample Date		Client Info		<b>30 Jan 2024</b>	01 Sep 2023	24 Jan 2023
Machine Age	hrs	Client Info		<b>14544</b>	13992	12493
Oil Age	hrs	Client Info		<b>1525</b>	973	1371
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	<b>4</b>	5	4
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	<1	3
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Copper	ppm	ASTM D5185m	>150	<b>3</b>	2	2
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<b>16</b>	13	11
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>---</b>	15509	51640
Particles >6µm		ASTM D7647	>5000	<b>---</b>	2365	▲ 15709
Particles >14µm		ASTM D7647	>160	<b>---</b>	77	▲ 668
Particles >21µm		ASTM D7647	>40	<b>---</b>	16	▲ 76
Particles >38µm		ASTM D7647	>10	<b>---</b>	1	1
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	<b>---</b>	21/18/13	▲ 23/21/17
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>6</b>	4	4
Boron	ppm	ASTM D5185m		<b>6</b>	6	5
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	24	17
Calcium	ppm	ASTM D5185m		<b>2445</b>	2480	2464
Phosphorus	ppm	ASTM D5185m		<b>829</b>	846	809
Zinc	ppm	ASTM D5185m		<b>939</b>	1060	980
Sulfur	ppm	ASTM D5185m		<b>5209</b>	5811	6543
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.15</b>	1.16	1.23
Visc @ 40°C	cSt	ASTM D445		<b>39.9</b>	39.5	39.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP307521  
**Lab Number** : 06100087  
**Unique Number** : 10898317  
**Test Package** : MOB 2

**Received** : 26 Feb 2024  
**Tested** : 27 Feb 2024  
**Diagnosed** : 27 Feb 2024 - Don Baldrige

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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)