



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A40G 340668**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP447691</b>	VCP433631	VCP416807
Sample Date		Client Info		<b>09 Jul 2024</b>	27 Mar 2024	08 Feb 2024
Machine Age	hrs	Client Info		<b>17948</b>	17421	17181
Oil Age	hrs	Client Info		<b>497</b>	240	272
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>12</b>	12	17
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	6	7
Lead	ppm	ASTM D5185m	>40	<b>2</b>	<1	1
Copper	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

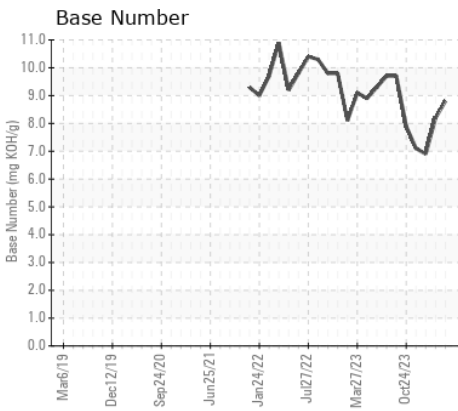
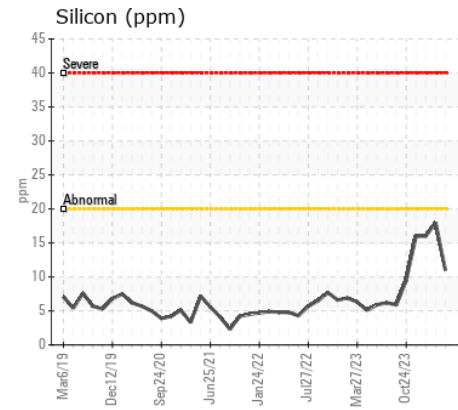
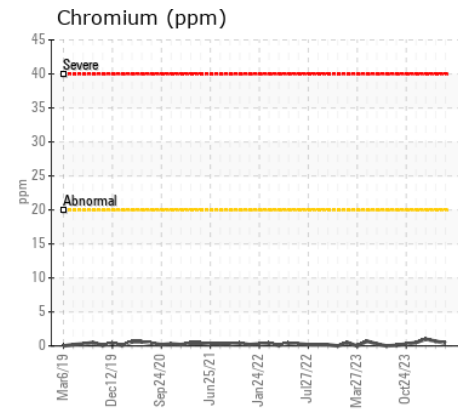
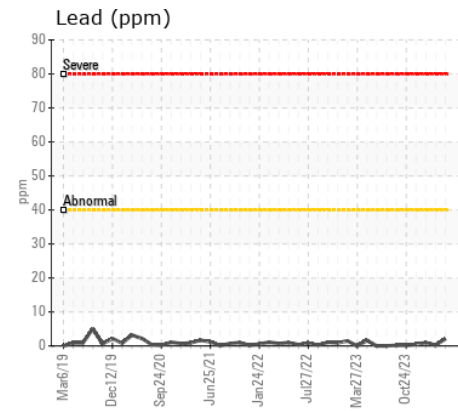
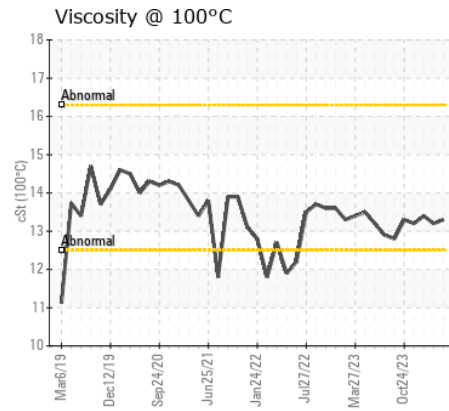
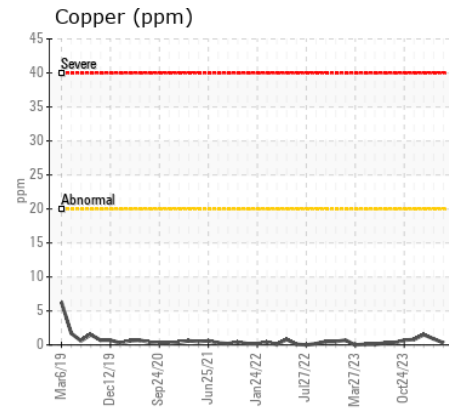
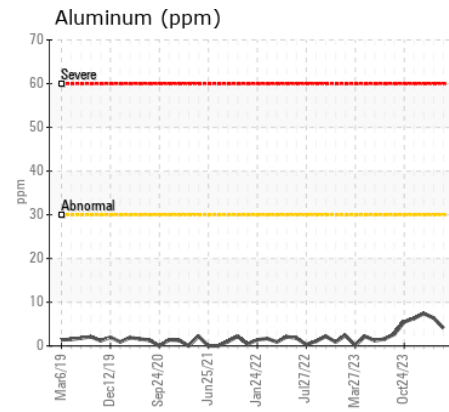
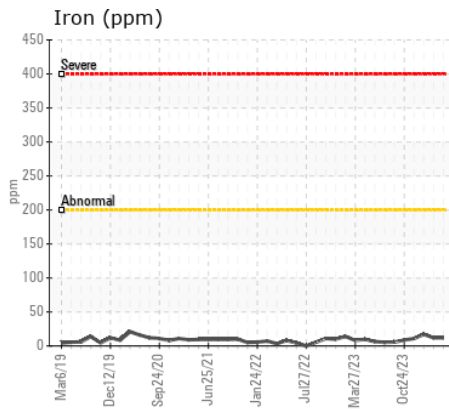
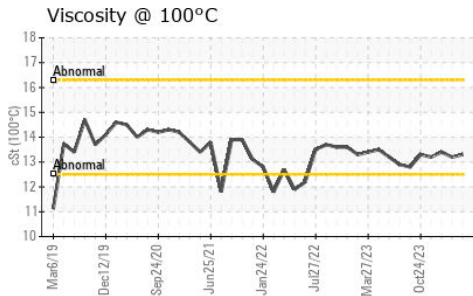
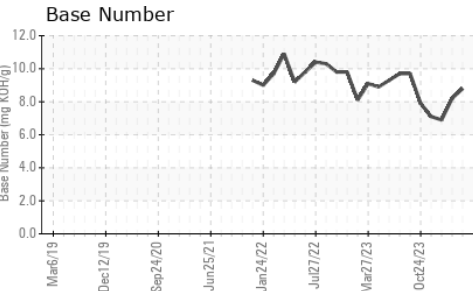
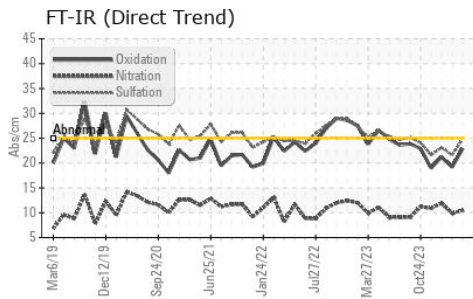
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>11</b>	18	16
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	3
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	9.9	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.7</b>	21.6	23.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>118	<b>4</b>	3	4
Boron	ppm	ASTM D5185m		<b>56</b>	113	85
Barium	ppm	ASTM D5185m		<b>0</b>	0	34
Molybdenum	ppm	ASTM D5185m		<b>61</b>	92	109
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>521</b>	600	601
Calcium	ppm	ASTM D5185m		<b>1699</b>	1468	1344
Phosphorus	ppm	ASTM D5185m		<b>767</b>	741	683
Zinc	ppm	ASTM D5185m		<b>822</b>	870	882
Sulfur	ppm	ASTM D5185m		<b>2798</b>	3070	3153
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.9</b>	19.2	21.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.8</b>	8.2	6.9
Visc @ 100°C	cSt	ASTM D445		<b>13.3</b>	13.2	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP447691 **Received** : 18 Jul 2024  
**Lab Number** : 06239962 **Tested** : 18 Jul 2024  
**Unique Number** : 11128796 **Diagnosed** : 18 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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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)