



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A40G 342610**  
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>VCP416996</b>	VCP312889	VCP405980
Sample Date		Client Info		<b>07 Feb 2024</b>	04 Dec 2023	24 Oct 2023
Machine Age	hrs	Client Info		<b>11084</b>	10786	10504
Oil Age	hrs	Client Info		<b>298</b>	286	271
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>9</b>	5	6
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	2	4
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>5</b>	4	5
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

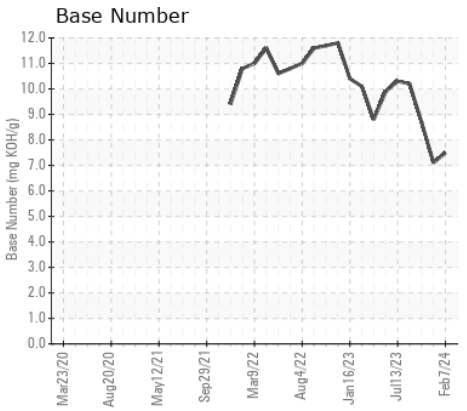
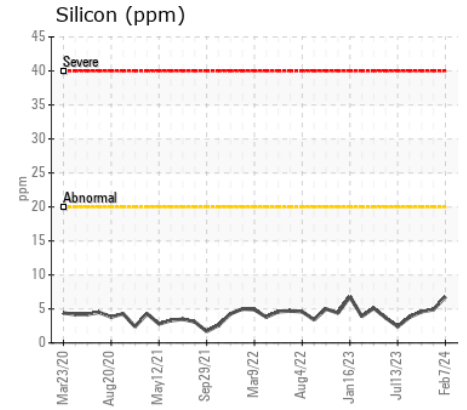
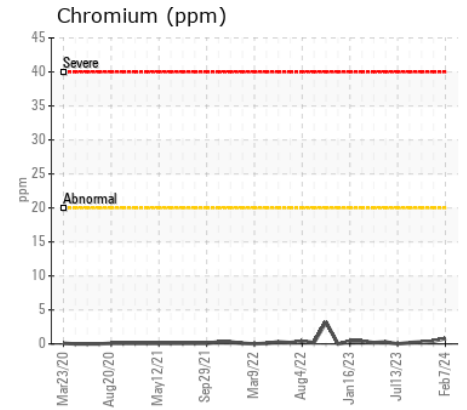
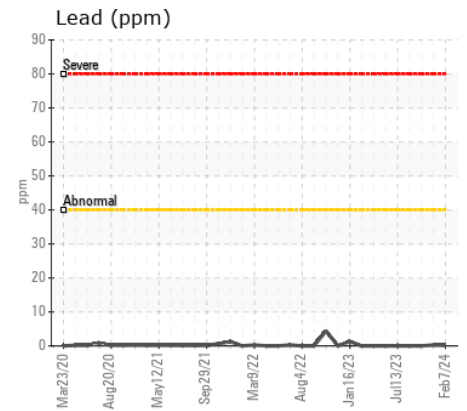
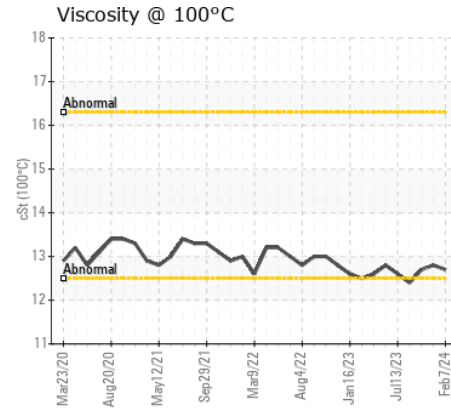
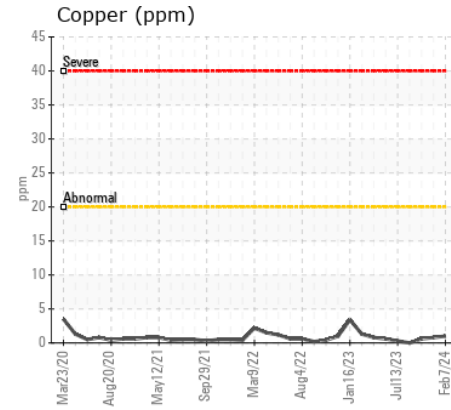
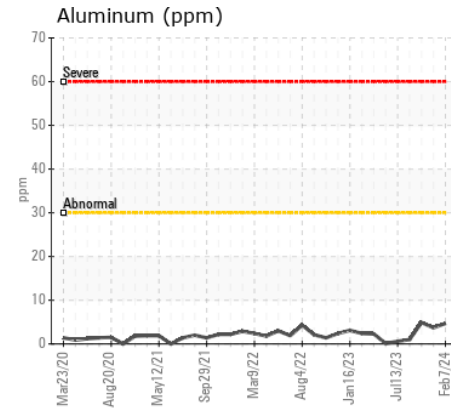
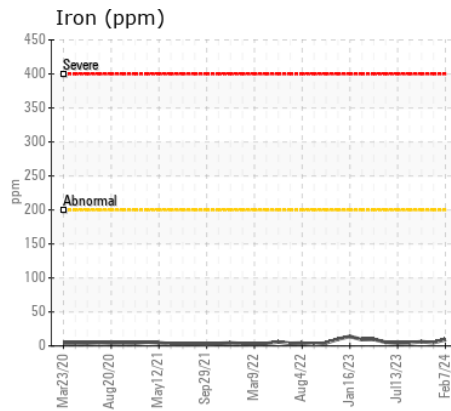
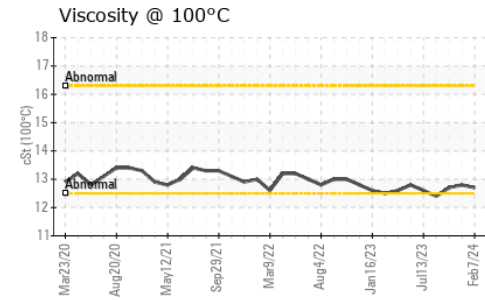
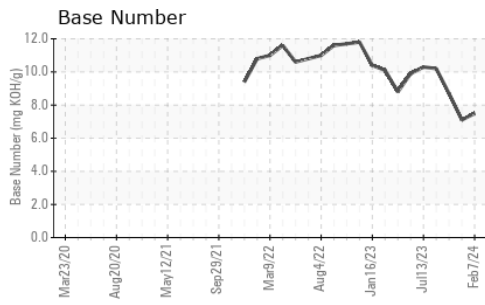
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
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>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.0</b>	8.2	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	18.2	19.7
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>118	<b>4</b>	0	3
Boron	ppm	ASTM D5185m		<b>92</b>	126	91
Barium	ppm	ASTM D5185m		<b>34</b>	11	<1
Molybdenum	ppm	ASTM D5185m		<b>97</b>	117	87
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>540</b>	629	604
Calcium	ppm	ASTM D5185m		<b>1191</b>	1259	1436
Phosphorus	ppm	ASTM D5185m		<b>630</b>	691	762
Zinc	ppm	ASTM D5185m		<b>790</b>	841	924
Sulfur	ppm	ASTM D5185m		<b>2980</b>	3609	3465
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.8</b>	15.0	17.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.5</b>	7.1	8.7
Visc @ 100°C	cSt	ASTM D445		<b>12.7</b>	12.8	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP416996

Lab Number : 06099953

Unique Number : 10898183

Test Package : MOB 1 ( Additional Tests: TBN )

Received : 26 Feb 2024

Tested : 27 Feb 2024

Diagnosed : 27 Feb 2024 - Don Baldrige

SCHILDBERG CONSTRUCTION COMPANY

PO BOX 358

GREENFIELD, IA

US 50849

Contact: SCOTT ARMSTRONG

sarmstrong@schildberg.com

T: (641)743-8237

F: (641)743-2486

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)