



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A40G 340274**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (--- QTS)**

### RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP316920</b>	VCP316919	VCP316918
Sample Date		Client Info		<b>13 Feb 2024</b>	22 Aug 2023	14 Mar 2023
Machine Age	hrs	Client Info		<b>11000</b>	10500	10000
Oil Age	hrs	Client Info		<b>500</b>	500	500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	MARGINAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>6</b>	3	2
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>7</b>	7	3
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

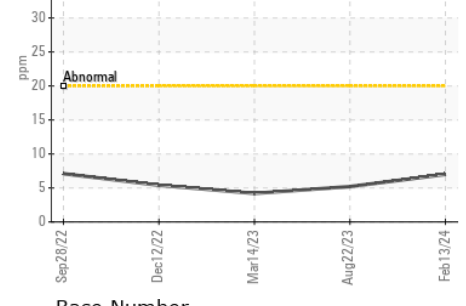
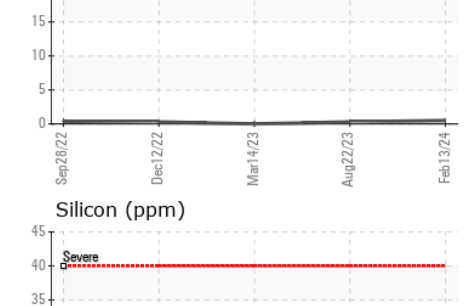
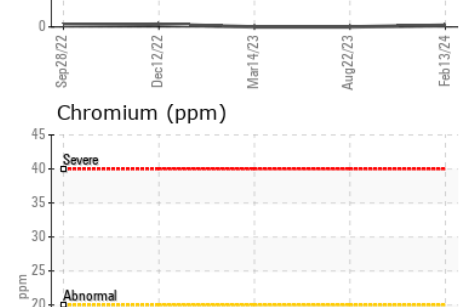
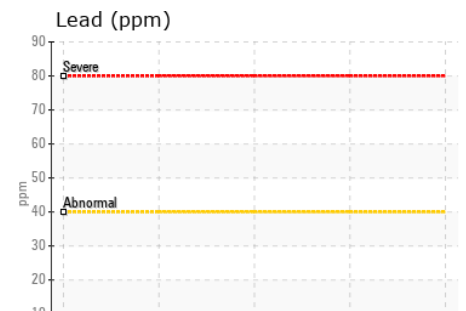
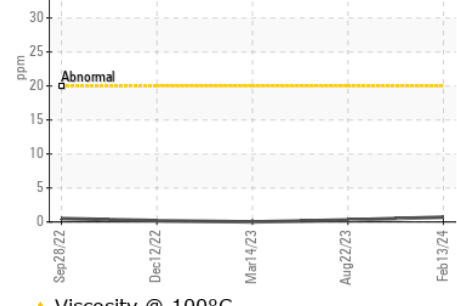
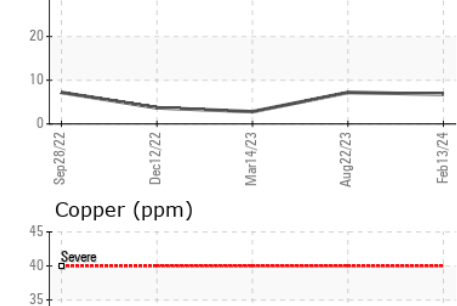
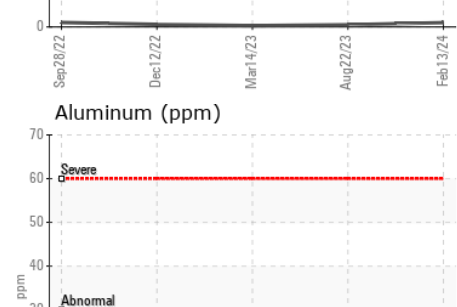
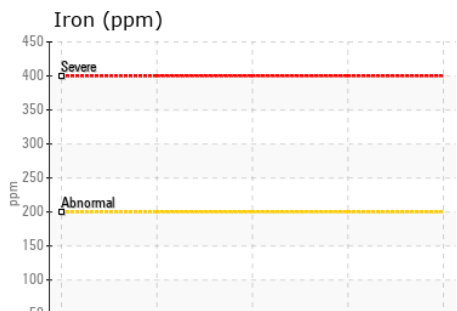
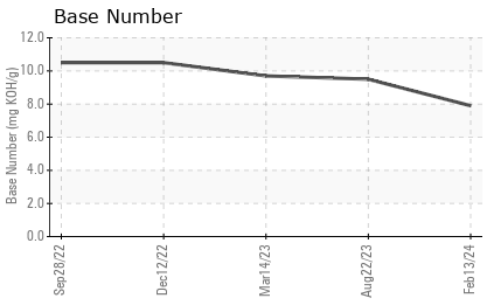
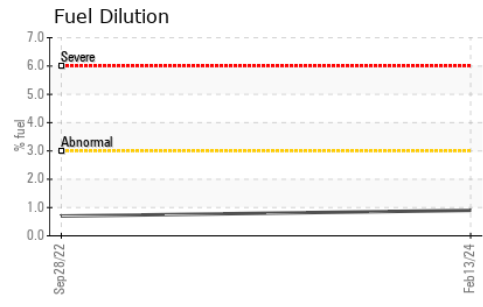
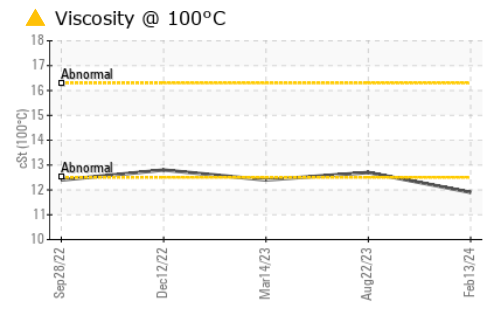
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Fuel	%	ASTM D3524	>3.0	<b>0.9</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>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	4.9	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.5</b>	17.7	18.7
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>118	<b>1</b>	<1	2
Boron	ppm	ASTM D5185m		<b>24</b>	15	15
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>72</b>	64	60
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>823</b>	1002	895
Calcium	ppm	ASTM D5185m		<b>1102</b>	1209	1174
Phosphorus	ppm	ASTM D5185m		<b>911</b>	1140	995
Zinc	ppm	ASTM D5185m		<b>1091</b>	1372	1232
Sulfur	ppm	ASTM D5185m		<b>2975</b>	4249	3671
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	12.9	13.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.9</b>	9.5	9.7
Visc @ 100°C	cSt	ASTM D445		<b>▲ 11.9</b>	12.7	▲ 12.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP316920 **Received** : 22 Feb 2024  
**Lab Number** : 06097375 **Tested** : 26 Feb 2024  
**Unique Number** : 10890228 **Diagnosed** : 26 Feb 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

**HOUSTON COUNTY LANDFILL**  
 2018 KINGS CHAPEL RD  
 PERRY, GA  
 US 31069  
 Contact: Service Manager

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)

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F: