



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L60H 622810**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1 5W40 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP424237</b>	VCP424241	VCP424240
Sample Date		Client Info		<b>20 Feb 2024</b>	10 Dec 2023	17 Sep 2023
Machine Age	hrs	Client Info		<b>4000</b>	3550	3058
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>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>34</b>	42	45
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>1</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	>10	<b>6</b>	6	2
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>15	<b>2</b>	3	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
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

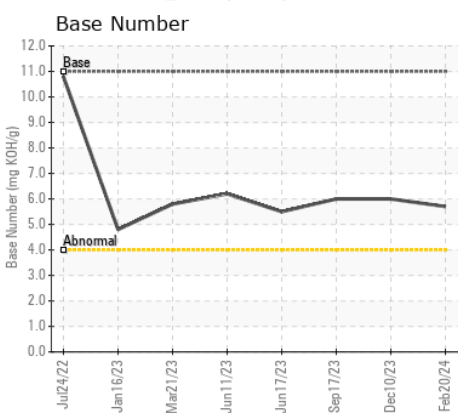
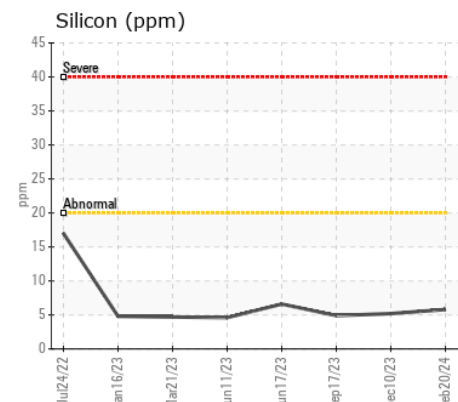
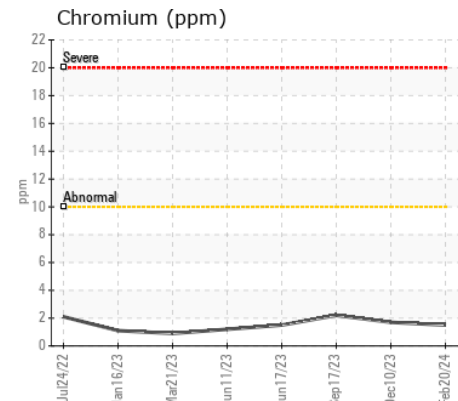
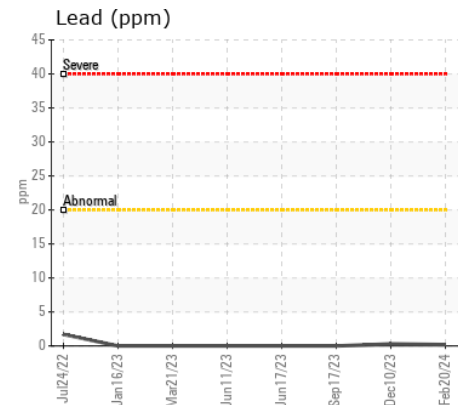
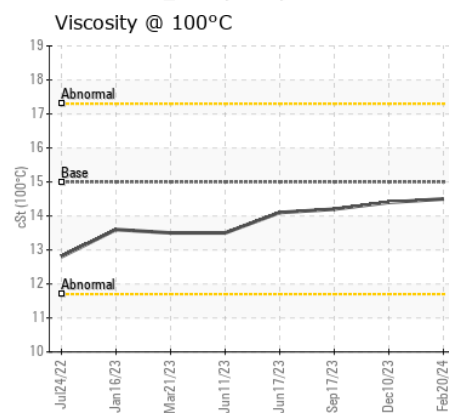
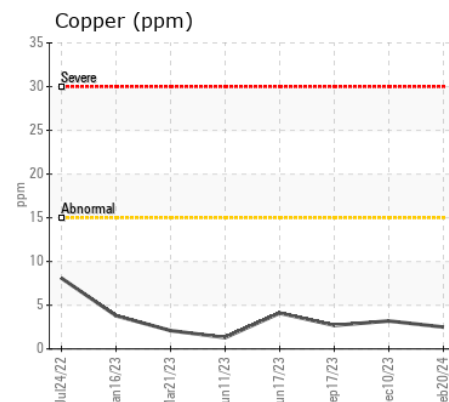
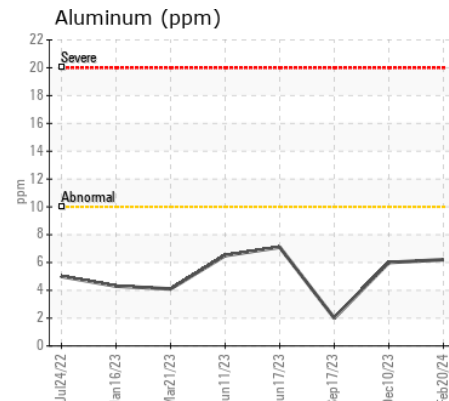
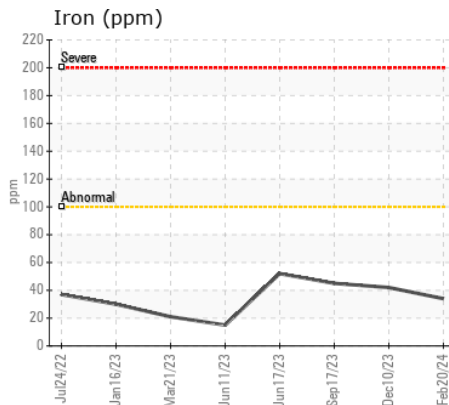
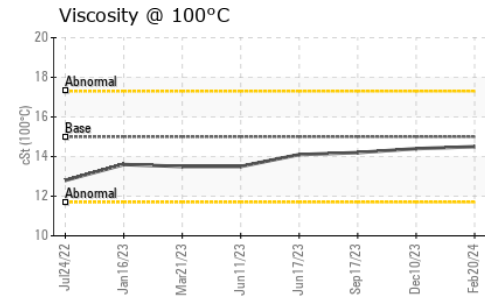
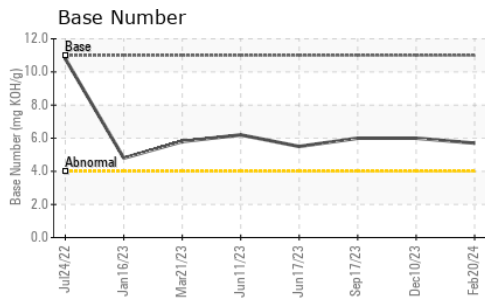
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	1.3	1.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	11.1	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>39.8</b>	39.7	39.5
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	>0.1	<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		<b>2</b>	0	1
Boron	ppm	ASTM D5185m	291	<b>72</b>	69	56
Barium	ppm	ASTM D5185m	0.0	<b>34</b>	12	0
Molybdenum	ppm	ASTM D5185m	8.0	<b>50</b>	50	47
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	624	<b>854</b>	948	960
Calcium	ppm	ASTM D5185m	2158	<b>929</b>	1041	1074
Phosphorus	ppm	ASTM D5185m	1132	<b>883</b>	1086	1110
Zinc	ppm	ASTM D5185m	1300	<b>1169</b>	1333	1351
Sulfur	ppm	ASTM D5185m	3616	<b>2803</b>	3219	3735
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>45.3</b>	45.4	45.6
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>5.7</b>	6.0	6.0
Visc @ 100°C	cSt	ASTM D445	15.0	<b>14.5</b>	14.4	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP424237 **Received** : 26 Feb 2024  
**Lab Number** : 06099933 **Tested** : 27 Feb 2024  
**Unique Number** : 10898163 **Diagnosed** : 27 Feb 2024 - Don Baldrige  
**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)