



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[661396]**  
Machine Id  
**VOLVO L110H 631024**  
Component  
**Rear Axle**  
Fluid  
**VOLVO WB 102 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP441664</b>	VCP405121	VCP381262
Sample Date		Client Info		<b>10 Feb 2024</b>	18 Apr 2023	02 Nov 2022
Machine Age	hrs	Client Info		<b>10869</b>	9834	9345
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>106</b>	55	40
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	1	1
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>120	<b>28</b>	18	12
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
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

### CONTAMINATION

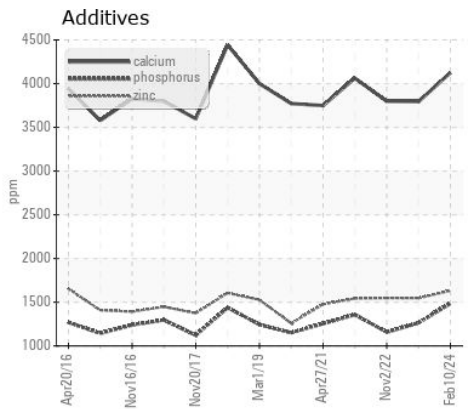
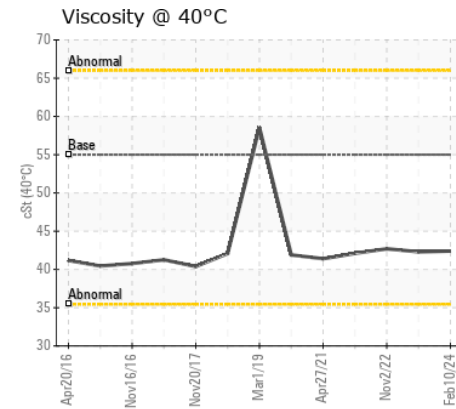
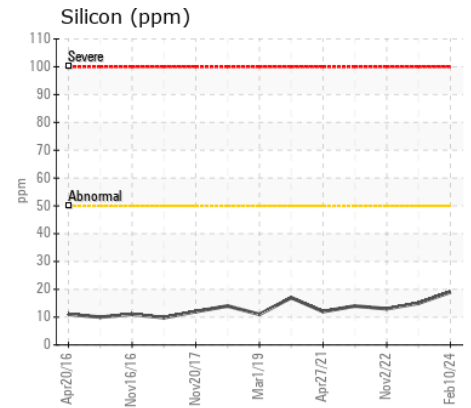
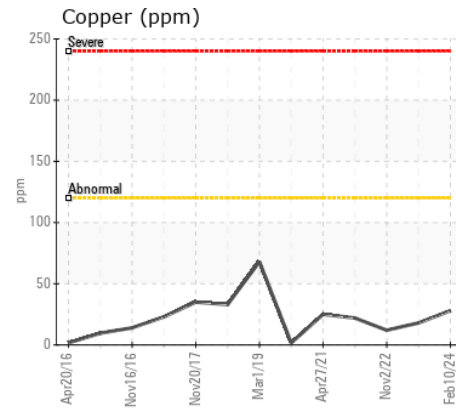
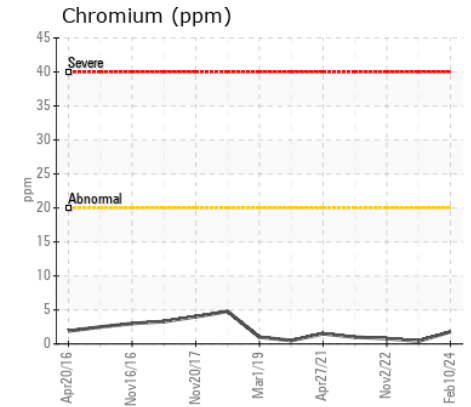
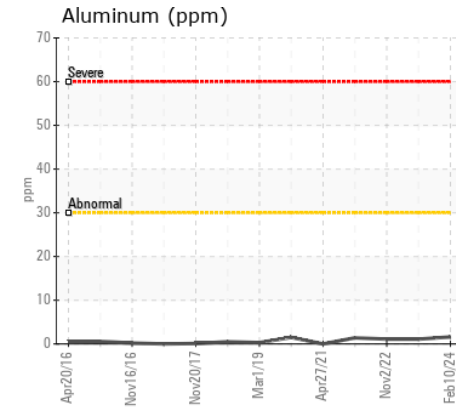
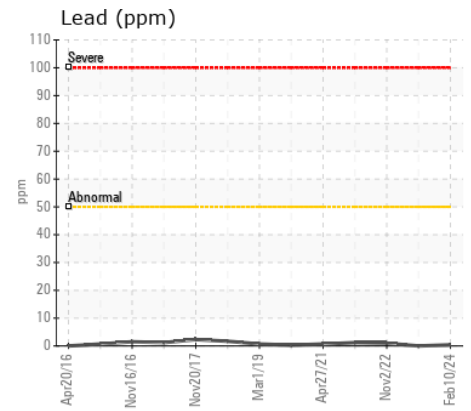
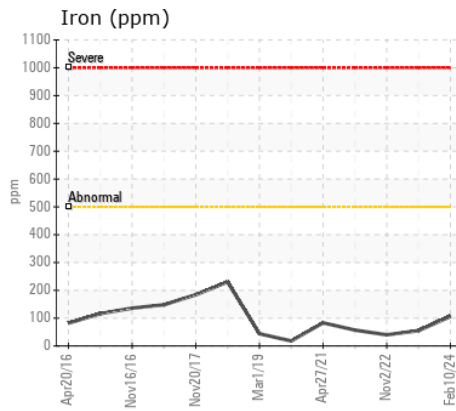
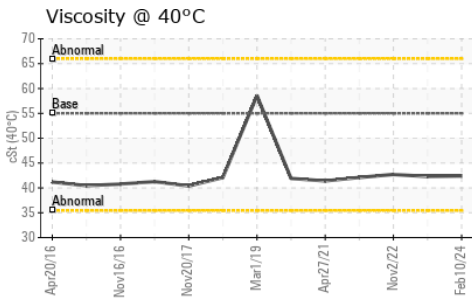
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>19</b>	15	13
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	4	4
Boron	ppm	ASTM D5185m		<b>155</b>	136	133
Barium	ppm	ASTM D5185m		<b>12</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	1	1
Manganese	ppm	ASTM D5185m		<b>3</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>22</b>	21	17
Calcium	ppm	ASTM D5185m		<b>4125</b>	3795	3799
Phosphorus	ppm	ASTM D5185m		<b>1488</b>	1264	1159
Zinc	ppm	ASTM D5185m		<b>1633</b>	1546	1547
Sulfur	ppm	ASTM D5185m		<b>5935</b>	3936	4064
Visc @ 40°C	cSt	ASTM D445	55	<b>42.4</b>	42.3	42.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP441664 **Received** : 14 Feb 2024  
**Lab Number** : 06089134 **Tested** : 15 Feb 2024  
**Unique Number** : 10876579 **Diagnosed** : 15 Feb 2024 - Wes Davis  
**Test Package** : MOB 1

**HUBBARD CONSTRUCTION**  
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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)