



# CONSTRUCTION EQUIPMENT

W14408 VOLVO L110H 631820 - FRONT AXLE



**Sample No:** VCP424366  
**Oil Type:** VOLVO WB 102  
**Job No:** W14408



## SAMPLE INFORMATION

Sample Number	<b>VCP424366</b>	VCP411471	VCP367733	VCP374250
Sample Date	<b>10 Jul 2023</b>	11 Apr 2023	09 Jan 2023	10 Jun 2022
Machine Hours	<b>5538</b>	5083	4597	3617
Oil Hours	<b>500</b>	500	4000	1500
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>44.4</b>	44.1	41.2	40.6
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## CONTAMINATION

Silicon	ppm	<b>14</b>	25	12	8
Sodium	ppm	<b>3</b>	3	9	7
Potassium	ppm	<b>&lt;1</b>	0	0	0



## WEAR METALS

Iron	ppm	<b>48</b>	175	98	40
Copper	ppm	<b>&lt;1</b>	0	<1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	<1	1
Chromium	ppm	<b>&lt;1</b>	2	2	<1
Molybdenum	ppm	<b>3</b>	2	4	4
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	3	2	1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>4093</b>	3910	3702	3270
Magnesium	ppm	<b>21</b>	27	27	20
Zinc	ppm	<b>1644</b>	1624	1496	1385
Phosphorus	ppm	<b>1285</b>	1264	1220	1132
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>115</b>	134	117	116

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0080  
**Unique No:** 10562990  
**Signed:** Wes Davis  
**Report Date:** 19 Jul 2023



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## GRAPHS

