



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 631239 - FRONT AXLE



**Sample No:** VCP420152  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP420152</b>	VCP390707	VCP342826	VCP326887
Sample Date	<b>22 Jun 2023</b>	25 Oct 2022	18 Nov 2021	07 Oct 2021
Machine Hours	<b>9176</b>	8302	7089	6658
Oil Hours	<b>0</b>	2000	1500	1500
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
rturner@ripatampa.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.5</b>	41.7	41.3	39.5
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### CONTAMINATION

Silicon	ppm	<b>13</b>	14	14	13
Sodium	ppm	<b>1</b>	9	9	6
Potassium	ppm	<b>0</b>	0	1	1



### WEAR METALS

Iron	ppm	<b>26</b>	55	112	53
Copper	ppm	<b>0</b>	<1	2	<1
Lead	ppm	<b>0</b>	<1	2	<1
Tin	ppm	<b>0</b>	0	2	0
Aluminum	ppm	<b>1</b>	1	<1	1
Chromium	ppm	<b>&lt;1</b>	<1	4	1
Molybdenum	ppm	<b>&lt;1</b>	<1	3	<1
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	<1	8	1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3314</b>	3824	3689	4305
Magnesium	ppm	<b>11</b>	16	12	14
Zinc	ppm	<b>1484</b>	1450	1420	1639
Phosphorus	ppm	<b>1207</b>	1193	1227	1421
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>34</b>	141	125	145

### 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:** RIPTAM  
**Unique No:** 10552306  
**Signed:** Wes Davis  
**Report Date:** 13 Jul 2023



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## GRAPHS

