



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 631231 - REAR AXLE



**Sample No:** VCP432300  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP432300</b>	VCP420254	VCP359719	VCP332721
Sample Date	<b>08 Nov 2023</b>	28 Apr 2023	15 Sep 2022	22 Feb 2022
Machine Hours	<b>12029</b>	10851	9792	8577
Oil Hours	<b>0</b>	2000	1700	2000
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	SEVERE

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: PM Services  
PMServices@ripaconstruction.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.7</b>	47.4	43.9	41.4
-------------	-----	-------------	------	------	------



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>11</b>	▲ 213	16	615
Sodium	ppm	<b>&lt;1</b>	1	7	6
Potassium	ppm	<b>0</b>	1	0	0

### 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.



### WEAR METALS

Iron	ppm	<b>25</b>	▲ 1174	78	2350
Copper	ppm	<b>0</b>	2	<1	4
Lead	ppm	<b>0</b>	<1	<1	2
Tin	ppm	<b>&lt;1</b>	0	<1	1
Aluminum	ppm	<b>&lt;1</b>	7	3	▲ 21
Chromium	ppm	<b>&lt;1</b>	13	2	▲ 25
Molybdenum	ppm	<b>0</b>	2	2	4
Nickel	ppm	<b>0</b>	8	1	▲ 12
Titanium	ppm	<b>0</b>	<1	<1	2
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>1</b>	8	3	17
Vanadium	ppm	<b>0</b>	<1	1	<1



### ADDITIVES

Calcium	ppm	<b>3763</b>	4013	3980	3957
Magnesium	ppm	<b>21</b>	15	13	28
Zinc	ppm	<b>1522</b>	1575	1527	1567
Phosphorus	ppm	<b>1342</b>	1230	1257	1413
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>133</b>	140	120	126

**Depot:** RIPTAM  
**Unique No:** 10871397  
**Signed:** Wes Davis  
**Report Date:** 09 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

