



# CONSTRUCTION EQUIPMENT

## 554641 VOLVO L110H 631294 - FRONT AXLE



**Sample No:** VCP425842  
**Oil Type:** VOLVO WB 102  
**Job No:** 554641



### SAMPLE INFORMATION

Sample Number	<b>VCP425842</b>	VCP386255	VCP359395	VCP321385
Sample Date	<b>30 May 2023</b>	22 Nov 2022	03 May 2022	20 Aug 2021
Machine Hours	<b>10414</b>	9308	8089	6543
Oil Hours	<b>2000</b>	500	1000	2000
Oil Changed	<b>Changed</b>	Not Chngd	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
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T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.8</b>	42.4	42.4	42.8
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>16</b>	15	15	10
Sodium	ppm	<b>4</b>	9	9	7
Potassium	ppm	<b>2</b>	<1	<1	<1

### 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>80</b>	53	34	41
Copper	ppm	<b>&lt;1</b>	<1	<1	0
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	2	2	0
Chromium	ppm	<b>1</b>	1	<1	<1
Molybdenum	ppm	<b>4</b>	3	3	10
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	2	0
Manganese	ppm	<b>2</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3893</b>	3721	4014	3813
Magnesium	ppm	<b>25</b>	28	31	39
Zinc	ppm	<b>1560</b>	1541	1626	1438
Phosphorus	ppm	<b>1258</b>	1185	1346	1179
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>135</b>	119	125	129

**Depot:** RIPTAM  
**Unique No:** 10526231  
**Signed:** Wes Davis  
**Report Date:** 24 Jun 2023



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## VOLVO GRAPHS

