



# CONSTRUCTION EQUIPMENT

## 580404 VOLVO L110H 631298 - FRONT AXLE



**Sample No:** VCP396881  
**Oil Type:** VOLVO WB 102  
**Job No:** 580404



### SAMPLE INFORMATION

Sample Number	<b>VCP396881</b>	VCP399559	VCP375845	VCP316322
Sample Date	<b>18 Jul 2023</b>	16 Dec 2022	02 Jun 2022	13 Jul 2021
Machine Hours	<b>8405</b>	7287	6331	5404
Oil Hours	<b>2000</b>	1000	2000	1400
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
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>41.3</b>	42.6	40.7	41.3
-------------	-----	-------------	------	------	------



### CONTAMINATION

Silicon	ppm	<b>16</b>	12	14	11
Sodium	ppm	<b>3</b>	2	10	9
Potassium	ppm	<b>2</b>	1	0	0



### WEAR METALS

Iron	ppm	<b>51</b>	32	73	41
Copper	ppm	<b>&lt;1</b>	0	<1	0
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>2</b>	0	1	<1
Chromium	ppm	<b>1</b>	<1	2	1
Molybdenum	ppm	<b>2</b>	1	7	7
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	2	1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3840</b>	3932	3782	3638
Magnesium	ppm	<b>17</b>	16	29	24
Zinc	ppm	<b>1547</b>	1538	1479	1478
Phosphorus	ppm	<b>1279</b>	1238	1226	1163
Barium	ppm	<b>1</b>	1	0	0
Boron	ppm	<b>153</b>	120	134	134

### 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:** 10602489  
**Signed:** Wes Davis  
**Report Date:** 13 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

