



# CONSTRUCTION EQUIPMENT

## 13900 AMERICAN HW VOLVO L110H 631365 - REAR AXLE



**Sample No:** VCP411510  
**Oil Type:** VOLVO WB 102  
**Job No:** 13900 AMERICAN HW



### SAMPLE INFORMATION

Sample Number	<b>VCP411510</b>	VCP250141	VCP274587	VCP244106
Sample Date	<b>01 Dec 2023</b>	18 Mar 2021	05 Jun 2020	27 Sep 2019
Machine Hours	<b>15261</b>	8011	6006	4116
Oil Hours	<b>2000</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 114</b>	■ 41.4	■ 40.6	■ 39.9
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 8	■ 5	■ 13	■ 15
Sodium	ppm	■ 2	■ 4	■ 5	■ 8
Potassium	ppm	■ 0	■ 0	■ <1	■ 12



### WEAR METALS

Iron	ppm	■ 105	■ 11	■ 38	■ 84
Copper	ppm	■ 0	■ 0	■ 0	■ <1
Lead	ppm	■ 0	■ <1	■ <1	■ 0
Tin	ppm	■ 0	■ <1	■ <1	■ 0
Aluminum	ppm	■ 0	■ <1	■ <1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ 2
Molybdenum	ppm	■ 0	■ <1	■ <1	■ 0
Nickel	ppm	■ 0	■ 0	■ <1	■ <1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 2	■ <1	■ 1	■ 3
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	<b>▲ 738</b>	■ 3705	■ 4078	■ 4311
Magnesium	ppm	■ 4	■ 10	■ 13	■ 15
Zinc	ppm	<b>▲ 321</b>	■ 1531	■ 1506	■ 1665
Phosphorus	ppm	<b>▲ 1762</b>	■ 1329	■ 1306	■ 1272
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 110	■ 116	■ 127	■ 117

### Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** VOLVO8882  
**Unique No:** 10779521  
**Signed:** Don Baldrige  
**Report Date:** 12 Dec 2023



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## VOLVO GRAPHS

