



# CONSTRUCTION EQUIPMENT

## A12263 VOLVO L110H 632378 - FRONT AXLE



**Sample No:** VCP433124  
**Oil Type:** MOBIL WB 102  
**Job No:** A12263



### SAMPLE INFORMATION

Sample Number	<b>VCP433124</b>	VCP414299	VCP400354	---
Sample Date	<b>05 Mar 2024</b>	31 Jul 2023	17 Jan 2023	---
Machine Hours	<b>2555</b>	1895	955	---
Oil Hours	<b>1000</b>	900	955	---
Oil Changed	<b>Not Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**HMR ASSOCIATES**  
 PO BOX 485  
 TOUGHKENAMON, PA  
 US 19374  
 Contact: SERVICE MANAGER



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.3</b>	44.8	40.8	---
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T:  
 F: (610)268-2225



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>8</b>	39	22	---
Sodium	ppm	<b>0</b>	3	10	---
Potassium	ppm	<b>2</b>	<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>31</b>	124	340	---
Copper	ppm	<b>&lt;1</b>	<1	2	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	4	<1	---
Chromium	ppm	<b>&lt;1</b>	2	7	---
Molybdenum	ppm	<b>7</b>	6	13	---
Nickel	ppm	<b>&lt;1</b>	<1	2	---
Titanium	ppm	<b>&lt;1</b>	1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>1</b>	3	12	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>2591</b>	3797	3849	---
Magnesium	ppm	<b>71</b>	56	15	---
Zinc	ppm	<b>1086</b>	1530	1621	---
Phosphorus	ppm	<b>813</b>	1249	1249	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>88</b>	136	118	---

**Depot:** HMRTOU  
**Unique No:** 10938186  
**Signed:** Wes Davis  
**Report Date:** 21 Mar 2024



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## GRAPHS

