



# CONSTRUCTION EQUIPMENT

## A12267 VOLVO L110H 632441 - FRONT AXLE



**Sample No:** VCP444361  
**Oil Type:** MOBIL WB 102  
**Job No:** A12267



### SAMPLE INFORMATION

Sample Number	<b>VCP444361</b>	VCP441837	VCP409793	---
Sample Date	<b>05 Mar 2024</b>	02 Oct 2023	05 Apr 2023	---
Machine Hours	<b>3590</b>	2450	1280	---
Oil Hours	<b>1000</b>	1450	1280	---
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>42.5</b>	44.2	40.5	---
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T:  
 F: (610)268-2225



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>9</b>	11	24	---
Sodium	ppm	<b>0</b>	0	11	---
Potassium	ppm	<b>2</b>	2	2	---

### 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>	51	198	---
Copper	ppm	<b>&lt;1</b>	<1	<1	---
Lead	ppm	<b>&lt;1</b>	0	0	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>2</b>	0	2	---
Chromium	ppm	<b>1</b>	1	6	---
Molybdenum	ppm	<b>6</b>	6	13	---
Nickel	ppm	<b>&lt;1</b>	<1	1	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>2</b>	3	10	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>2773</b>	2898	3936	---
Magnesium	ppm	<b>59</b>	40	16	---
Zinc	ppm	<b>1139</b>	1268	1632	---
Phosphorus	ppm	<b>859</b>	1013	1333	---
Barium	ppm	<b>0</b>	1	0	---
Boron	ppm	<b>87</b>	92	131	---

**Depot:** HMRTOU  
**Unique No:** 10938188  
**Signed:** Wes Davis  
**Report Date:** 21 Mar 2024



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## GRAPHS

