



# CONSTRUCTION EQUIPMENT

## W07013061 VOLVO L90E 67920 - TRANSMISSION (AUTO)



**Sample No:** VCP409411  
**Oil Type:** VOLVO AT 102  
**Job No:** W07013061



### SAMPLE INFORMATION

Sample Number	<b>VCP409411</b>	VCP300473	VCP224490	---
Sample Date	<b>31 Jul 2023</b>	03 Aug 2021	18 Jul 2018	---
Machine Hours	<b>6146</b>	4732	2253	---
Oil Hours	<b>2000</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	---

**McClung-Logan Virginia LLC- RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>29.5</b>	28.8	21.63	---
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### CONTAMINATION

Silicon	ppm	<b>▲ 23</b>	1	3	---
Sodium	ppm	<b>2</b>	<1	4	---
Potassium	ppm	<b>3</b>	<1	3	---



### WEAR METALS

Iron	ppm	<b>12</b>	6	18	---
Copper	ppm	<b>2</b>	4	6	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>▲ 8</b>	0	<1	---
Chromium	ppm	<b>0</b>	0	<1	---
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>&lt;1</b>	1	3	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>520</b>	83	57	---
Magnesium	ppm	<b>6</b>	4	1	---
Zinc	ppm	<b>210</b>	18	66	---
Phosphorus	ppm	<b>353</b>	189	146	---
Barium	ppm	<b>0</b>	0	<1	---
Boron	ppm	<b>110</b>	91	54	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the fluid. The condition of the fluid is acceptable for the time in service.

**Depot:** VOLVO8882  
**Unique No:** 10604545  
**Signed:** Sean Felton  
**Report Date:** 16 Aug 2023



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## GRAPHS

