



# CONSTRUCTION EQUIPMENT

## SPM595107 VOLVO L90H 625106 - FRONT AXLE



**Sample No:** VCP354497  
**Oil Type:** VOLVO WB 102  
**Job No:** SPM595107



### SAMPLE INFORMATION

Sample Number	<b>VCP354497</b>	VCP391107	VCP377706	---
Sample Date	<b>22 Aug 2023</b>	27 Sep 2022	09 Jun 2022	---
Machine Hours	<b>4106</b>	2921	2330	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	---
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	---

### UNITED SCRAP

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 T:  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.8</b>	42.8	39.7	---
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### CONTAMINATION

Silicon	ppm	<b>▲ 50</b>	12	12	---
Sodium	ppm	<b>3</b>	<1	8	---
Potassium	ppm	<b>0</b>	2	0	---



### WEAR METALS

Iron	ppm	<b>23</b>	10	50	---
Copper	ppm	<b>&lt;1</b>	<1	<1	---
Lead	ppm	<b>&lt;1</b>	0	0	---
Tin	ppm	<b>1</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	2	1	---
Chromium	ppm	<b>&lt;1</b>	<1	3	---
Molybdenum	ppm	<b>2</b>	<1	11	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>2</b>	1	8	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>4078</b>	4087	3754	---
Magnesium	ppm	<b>27</b>	14	10	---
Zinc	ppm	<b>1622</b>	1704	1522	---
Phosphorus	ppm	<b>1273</b>	1327	1257	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>162</b>	136	138	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.

**Depot:** UNICICIL  
**Unique No:** 10631624  
**Signed:** Don Baldrige  
**Report Date:** 06 Sep 2023



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## GRAPHS

