



# CONSTRUCTION EQUIPMENT

## SW1012647 MGC 05-03 VOLVO L110H 631398 - REAR AXLE



**Sample No:** VCP397981  
**Oil Type:** VOLVO WB 102  
**Job No:** SW1012647 MGC 05-03



### SAMPLE INFORMATION

Sample Number	<b>VCP397981</b>	VCP316148	VCP297390	VCP254347
Sample Date	<b>13 Jan 2023</b>	11 Jun 2021	03 Dec 2020	12 Jul 2019
Machine Hours	<b>2544</b>	2025	1744	1021
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.5</b>	40.3	40.0	41.9
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>11</b>	16	15	14
Sodium	ppm	<b>9</b>	2	5	3
Potassium	ppm	<b>0</b>	<1	7	26

### 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>70</b>	177	135	124
Copper	ppm	<b>5</b>	9	8	9
Lead	ppm	<b>2</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>1</b>	0	<1	<1
Chromium	ppm	<b>2</b>	4	4	3
Molybdenum	ppm	<b>2</b>	6	4	5
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>3</b>	7	6	4
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>3913</b>	4285	4204	4233
Magnesium	ppm	<b>18</b>	14	15	8
Zinc	ppm	<b>1649</b>	1543	1584	1618
Phosphorus	ppm	<b>1293</b>	1331	1252	1324
Barium	ppm	<b>10</b>	0	0	0
Boron	ppm	<b>132</b>	232	119	119

**Depot:** VOLVO6174  
**Unique No:** 10307993  
**Signed:** Wes Davis  
**Report Date:** 25 Jan 2023



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## GRAPHS

