



# CONSTRUCTION EQUIPMENT

## GD5194 VOLVO L90H 623884 - REAR AXLE



**Sample No:** VCP320146  
**Oil Type:** VOLVO WB 102  
**Job No:** GD5194



### SAMPLE INFORMATION

Sample Number	<b>VCP320146</b>	VCP236892	VCP239062	VCP224306
Sample Date	<b>05 Jan 2022</b>	27 Feb 2019	11 Feb 2019	13 Dec 2018
Machine Hours	<b>8798</b>	4440	4361	4180
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	N/A
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.2</b>	40.7	40.45	40.11
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>14</b>	14	16	16
Sodium	ppm	<b>7</b>	4	7	8
Potassium	ppm	<b>0</b>	12	12	16

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>28</b>	26	50	38
Copper	ppm	<b>10</b>	2	7	5
Lead	ppm	<b>&lt;1</b>	0	1	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	2	2	3
Chromium	ppm	<b>&lt;1</b>	<1	2	2
Molybdenum	ppm	<b>5</b>	<1	2	1
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	1	2
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3545</b>	4102	4082	4053
Magnesium	ppm	<b>24</b>	13	13	13
Zinc	ppm	<b>1411</b>	1580	1591	1532
Phosphorus	ppm	<b>1169</b>	1243	1194	1144
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>128</b>	110	111	109

**Depot:** VOLVO6174  
**Unique No:** 9812703  
**Signed:** Don Baldrige  
**Report Date:** 14 Jan 2022



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## VOLVO GRAPHS

