



# CONSTRUCTION EQUIPMENT

UPAP-ORLANDO 9469 617406 VOLVO L90G 617406 - FRONT AXLE



**Sample No:** VCP412047  
**Oil Type:** VOLVO WB 102  
**Job No:** 9469



## SAMPLE INFORMATION

Sample Number	<b>VCP412047</b>	VCP417704	VCP389641	VCP337744
Sample Date	<b>08 Jan 2024</b>	11 Jul 2023	28 Dec 2022	05 Jul 2022
Machine Hours	<b>14951</b>	14237	13731	13038
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>43.5</b>	43.3	42.4	42.5
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## CONTAMINATION

Water	%	<b>0.243</b>	NEG	NEG	NEG
Silicon	ppm	<b>14</b>	15	14	13
Sodium	ppm	<b>3</b>	3	4	6
Potassium	ppm	<b>&lt;1</b>	0	2	0

## 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. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>23</b>	24	21	19
Copper	ppm	<b>1</b>	2	2	2
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>1</b>	2	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	2	2	2
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>3712</b>	4088	3990	4099
Magnesium	ppm	<b>30</b>	29	29	30
Zinc	ppm	<b>1636</b>	1653	1600	1536
Phosphorus	ppm	<b>1336</b>	1305	1268	1256
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>127</b>	123	128	144

**Depot:** UPUORL  
**Unique No:** 10829778  
**Signed:** Don Baldrige  
**Report Date:** 14 Jan 2024



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## GRAPHS

