



# CONSTRUCTION EQUIPMENT

W14603 VOLVO L220H 2884 - FRONT AXLE



**Sample No:** VCP374112  
**Oil Type:** VOLVO WB 102  
**Job No:** W14603



## SAMPLE INFORMATION

Sample Number	<b>VCP374112</b>	VCP405887	VCP398354	VCP384052
Sample Date	<b>31 Aug 2023</b>	02 Jun 2023	13 Feb 2023	05 Oct 2022
Machine Hours	<b>9538</b>	8994	8521	7990
Oil Hours	<b>500</b>	1000	500	2000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>47.3</b>	49.4	48.8	44.0
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## CONTAMINATION

Silicon	ppm	<b>15</b>	13	14	11
Sodium	ppm	<b>3</b>	3	4	1
Potassium	ppm	<b>0</b>	2	0	0



## WEAR METALS

Iron	ppm	<b>24</b>	14	42	17
Copper	ppm	<b>2</b>	2	3	2
Lead	ppm	<b>0</b>	1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	3	▲ 48	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>0</b>	2	2	2
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>0</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>3816</b>	3778	3741	4013
Magnesium	ppm	<b>22</b>	22	21	21
Zinc	ppm	<b>1525</b>	1566	1415	1631
Phosphorus	ppm	<b>1220</b>	1233	1137	1240
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>126</b>	141	133	122

## 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.

**Depot:** VOLVO0080  
**Unique No:** 10635515  
**Signed:** Wes Davis  
**Report Date:** 08 Sep 2023



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## VOLVO GRAPHS

