



# CONSTRUCTION EQUIPMENT

W14889 VOLVO L220H 2820 - FRONT AXLE



**Sample No:** VCP380822  
**Oil Type:** VOLVO WB 102  
**Job No:** W14889



## SAMPLE INFORMATION

Sample Number	<b>VCP380822</b>	VCP410533	VCP426790	VCP382403
Sample Date	<b>31 Oct 2023</b>	15 Aug 2023	31 May 2023	07 Dec 2022
Machine Hours	<b>9548</b>	9046	8553	8016
Oil Hours	<b>500</b>	1000	500	4000
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>46.4</b>	46.6	47.4	41.6
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## CONTAMINATION

Silicon	ppm	<b>13</b>	14	17	11
Sodium	ppm	<b>5</b>	5	4	7
Potassium	ppm	<b>0</b>	<1	2	0



## WEAR METALS

Iron	ppm	<b>22</b>	25	23	46
Copper	ppm	<b>2</b>	2	1	6
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	<1	2	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>1</b>	1	2	2
Nickel	ppm	<b>0</b>	0	<1	0
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>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>3347</b>	3653	3846	3760
Magnesium	ppm	<b>19</b>	23	24	26
Zinc	ppm	<b>1403</b>	1458	1553	1521
Phosphorus	ppm	<b>1068</b>	1169	1235	1182
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>118</b>	130	119	129

## 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:** 10728415  
**Signed:** Sean Felton  
**Report Date:** 08 Nov 2023



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## VOLVO GRAPHS

