



CONSTRUCTION EQUIPMENT

SPM633222 VOLVO L220H 12011 - FRONT AXLE



Sample No: VCP442827
Oil Type: VOLVO WB 102
Job No: SPM633222



SAMPLE INFORMATION

Sample Number	VCP442827	VCP386448	VCP320137	VCP300541
Sample Date	22 Nov 2023	07 Oct 2022	25 Sep 2021	26 Jun 2021
Machine Hours	21516	19623	18543	18125
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 40°C	cSt	42.3	42.5	41.0	41.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	14	8	8
Sodium	ppm	3	2	0	0
Potassium	ppm	0	1	<1	<1

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	79	42	72	57
Copper	ppm	4	3	12	13
Lead	ppm	0	3	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	0	0	0
Chromium	ppm	<1	2	<1	<1
Molybdenum	ppm	<1	2	2	2
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	1	1	1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	2	<1	<1
Vanadium	ppm	0	1	<1	<1



ADDITIVES

Calcium	ppm	3864	4104	2676	2803
Magnesium	ppm	12	17	12	11
Zinc	ppm	1543	1649	1174	1142
Phosphorus	ppm	1204	1225	1052	1071
Barium	ppm	0	0	0	0
Boron	ppm	128	133	75	149

Depot: VOLV00142
Unique No: 10768663
Signed: Wes Davis
Report Date: 05 Dec 2023



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GRAPHS

