



# CONSTRUCTION EQUIPMENT

## HANSON VOLVO L220H 3137 - FRONT AXLE



**Sample No:** VCP421582  
**Oil Type:** VOLVO WB 102  
**Job No:** HANSON



### SAMPLE INFORMATION

Sample Number	<b>VCP421582</b>	ASC0006177	VCP423900	VCP414032
Sample Date	<b>14 Mar 2024</b>	18 Jan 2024	24 Aug 2023	12 Jul 2023
Machine Hours	<b>9077</b>	8714	8073	7687
Oil Hours	<b>0</b>	4000	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**113 - ASCENDUM MACHINERY INC - GARNER**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>45.5</b>	45.6	41.6	41.8
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>12</b>	10	12	10
Sodium	ppm	<b>0</b>	6	6	4
Potassium	ppm	<b>2</b>	0	0	<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	<b>14</b>	90	92	82
Copper	ppm	<b>1</b>	7	6	7
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>2</b>	<1	4	2
Chromium	ppm	<b>&lt;1</b>	2	2	2
Molybdenum	ppm	<b>&lt;1</b>	<1	0	<1
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	2	2	2
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>3730</b>	2899	3330	3439
Magnesium	ppm	<b>16</b>	11	16	12
Zinc	ppm	<b>1568</b>	1282	1387	1485
Phosphorus	ppm	<b>1184</b>	1077	1126	1191
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>124</b>	90	109	97

**Depot:** VOLV00157  
**Unique No:** 10936885  
**Signed:** Wes Davis  
**Report Date:** 20 Mar 2024



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## VOLVO GRAPHS

