



# CONSTRUCTION EQUIPMENT

## SPM608087 VOLVO L180H 5413 - FRONT AXLE



**Sample No:** VCP439734  
**Oil Type:** VOLVO WB 102  
**Job No:** SPM608087



### SAMPLE INFORMATION

Sample Number	<b>VCP439734</b>	VCP423043	VCP425187	VCP376845
Sample Date	<b>29 Sep 2023</b>	30 Jun 2023	20 May 2023	20 Jul 2022
Machine Hours	<b>6660</b>	5936	5589	4384
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	N/A	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.4</b>	42.8	42.8	41.0
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### CONTAMINATION

Silicon	ppm	<b>14</b>	14	14	10
Sodium	ppm	<b>3</b>	0	2	8
Potassium	ppm	<b>&lt;1</b>	2	2	0



### WEAR METALS

Iron	ppm	<b>96</b>	84	81	127
Copper	ppm	<b>4</b>	4	4	11
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>5</b>	1	1	1
Chromium	ppm	<b>2</b>	2	2	3
Molybdenum	ppm	<b>2</b>	3	3	5
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>3</b>	3	3	4
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>4179</b>	4105	4274	3361
Magnesium	ppm	<b>16</b>	14	14	11
Zinc	ppm	<b>1785</b>	1629	1713	1420
Phosphorus	ppm	<b>1447</b>	1300	1349	1238
Barium	ppm	<b>0</b>	2	2	0
Boron	ppm	<b>142</b>	148	132	106

### 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:** VOLVO0142  
**Unique No:** 10675884  
**Signed:** Wes Davis  
**Report Date:** 05 Oct 2023



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## VOLVO GRAPHS

