



# CONSTRUCTION EQUIPMENT

## SPM580302 SUWANNEE VOLVO L180H 5496 - FRONT AXLE



**Sample No:** VCP412812  
**Oil Type:** VOLVO WB 102  
**Job No:** SPM580302 SUWANNEE



### SAMPLE INFORMATION

Sample Number	<b>VCP412812</b>	VCP417494	VCP405185	VCP379839
Sample Date	<b>18 Jul 2023</b>	02 Jun 2023	14 Apr 2023	02 Nov 2022
Machine Hours	<b>11082</b>	10460	9652	6867
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	43.3	42.0	45.1
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### CONTAMINATION

Silicon	ppm	<b>13</b>	12	9	12
Sodium	ppm	<b>2</b>	1	1	4
Potassium	ppm	<b>0</b>	0	0	0

### 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>50</b>	41	69	59
Copper	ppm	<b>19</b>	18	80	64
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>2</b>	1	<1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>1</b>	<1	<1	2
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	1	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3948</b>	3737	2630	3548
Magnesium	ppm	<b>21</b>	19	15	17
Zinc	ppm	<b>1538</b>	1501	1336	1404
Phosphorus	ppm	<b>1290</b>	1187	1196	1223
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>150</b>	137	96	144

**Depot:** VOLVO0093  
**Unique No:** 10572485  
**Signed:** Wes Davis  
**Report Date:** 25 Jul 2023



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## GRAPHS

