



# CONSTRUCTION EQUIPMENT

## SPM633222 VOLVO L220H 12011 - TRANSMISSION (AUTO)



**Sample No:** VCP442826  
**Oil Type:** VOLVO AUTOMATIC TRANSMISSION FLUID AT102  
**Job No:** SPM633222



### SAMPLE INFORMATION

Sample Number	<b>VCP442826</b>	VCP386453	VCP325611	VCP320139
Sample Date	<b>22 Nov 2023</b>	07 Oct 2022	19 Oct 2021	25 Sep 2021
Machine Hours	<b>21516</b>	19623	18817	18543
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	N/A	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
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 T: (315)437-2611  
 F: (315)434-9471



### OIL CONDITION

Visc @ 40°C	cSt	<b>27.8</b>	28.1	28.3	28.3
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>9</b>	9	5	5
Sodium	ppm	<b>2</b>	6	6	3
Potassium	ppm	<b>8</b>	8	4	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 fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>50</b>	19	63	56
Copper	ppm	<b>6</b>	4	10	8
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>2</b>	0	1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>&lt;1</b>	1	1	<1
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>2</b>	3	1	<1
Vanadium	ppm	<b>0</b>	1	<1	0



### ADDITIVES

Calcium	ppm	<b>73</b>	70	552	539
Magnesium	ppm	<b>2</b>	10	15	6
Zinc	ppm	<b>6</b>	8	237	211
Phosphorus	ppm	<b>191</b>	190	322	312
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>70</b>	73	78	90

**Depot:** VOLV00142  
**Unique No:** 10768697  
**Signed:** Don Baldrige  
**Report Date:** 06 Dec 2023

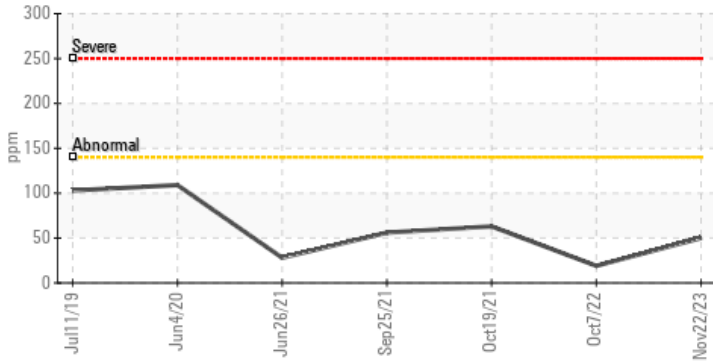


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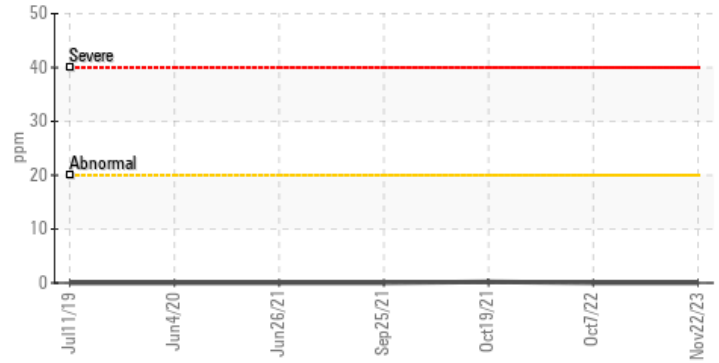


## GRAPHS

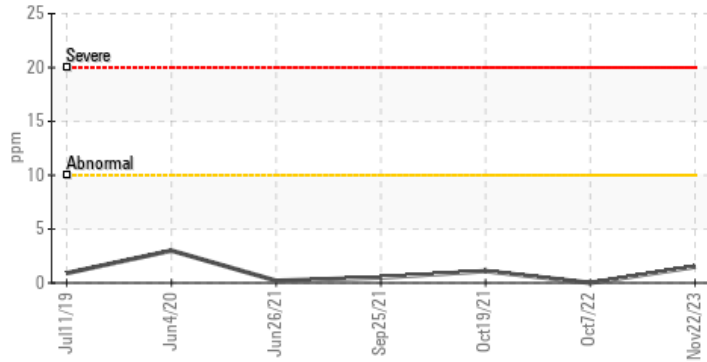
### Iron (ppm)



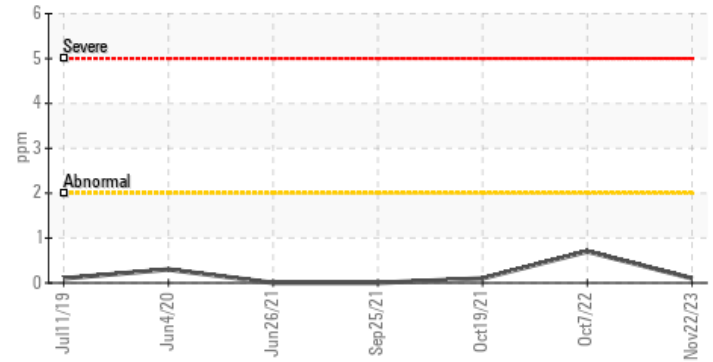
### Lead (ppm)



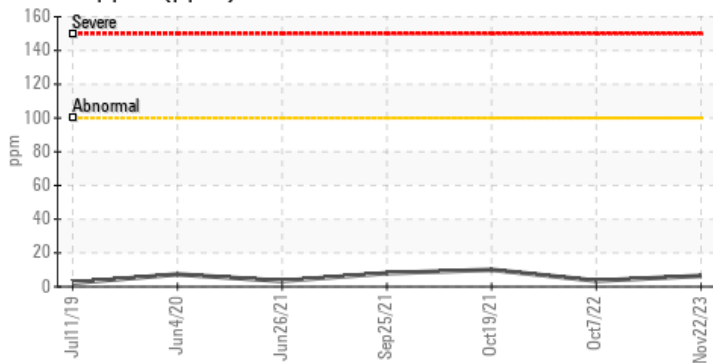
### Aluminum (ppm)



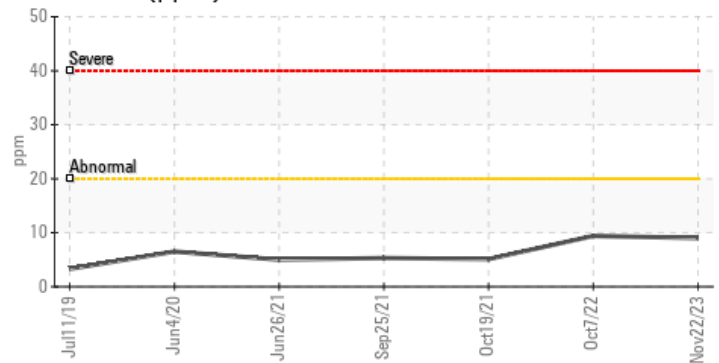
### Chromium (ppm)



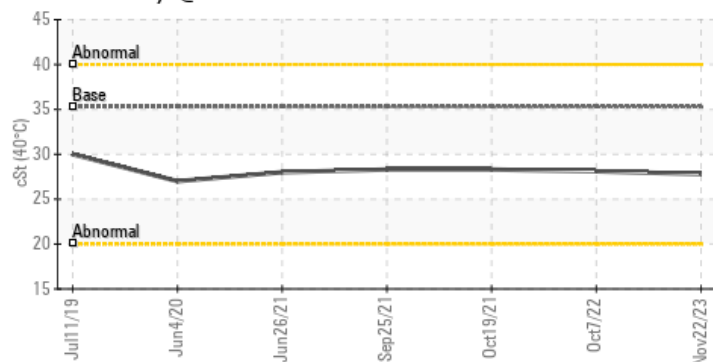
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

