

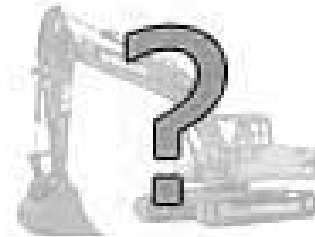


# CONSTRUCTION EQUIPMENT

## VOLVO L110H 631123 - FRONT AXLE



**Sample No:** VCP438538  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP438538</b>	VCP420269	VCP386758	VCP284835
Sample Date	<b>10 Jul 2024</b>	11 Apr 2023	09 Sep 2022	07 Aug 2020
Machine Hours	<b>9296</b>	7290	6136	4074
Oil Hours	<b>0</b>	3200	500	2000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: PM Services  
PMServices@ripaconstruction.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.4</b>	41.7	42.5	40.4
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>17</b>	16	15	19
Sodium	ppm	<b>5</b>	8	6	2
Potassium	ppm	<b>2</b>	0	2	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>323</b>	204	72	107
Copper	ppm	<b>1</b>	<1	0	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>2</b>	2	<1	0
Chromium	ppm	<b>4</b>	3	1	<1
Molybdenum	ppm	<b>11</b>	11	10	1
Nickel	ppm	<b>1</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	2
Manganese	ppm	<b>4</b>	3	1	2
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3722</b>	3768	3971	3888
Magnesium	ppm	<b>45</b>	47	41	10
Zinc	ppm	<b>1532</b>	1533	1589	1597
Phosphorus	ppm	<b>1352</b>	1265	1281	1273
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>129</b>	143	126	172

**Depot:** RIPTAM  
**Unique No:** 11125324  
**Signed:** Sean Felton  
**Report Date:** 17 Jul 2024

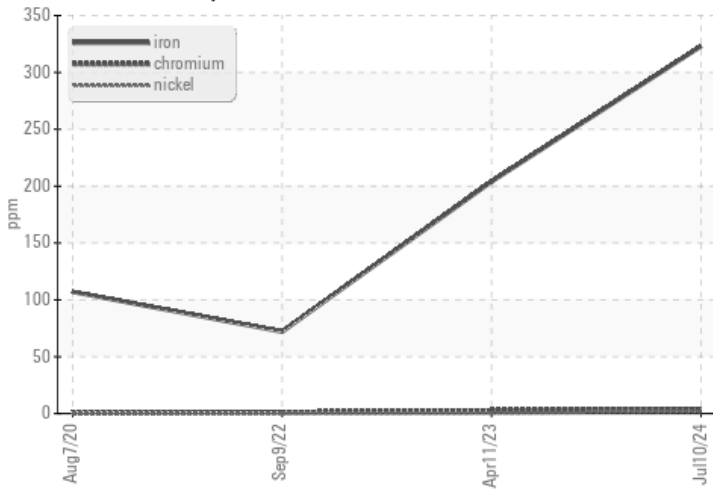


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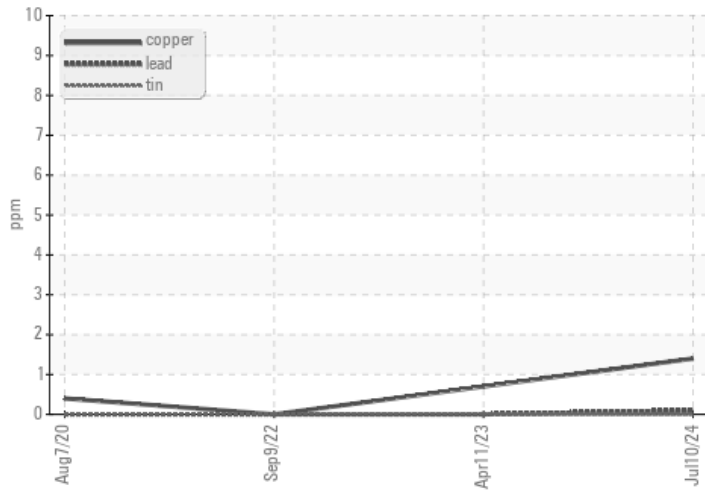


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

