



# CONSTRUCTION EQUIPMENT

SWA411361-10 VOLVO L220H 3195 - REAR AXLE



**Sample No:** VCP432405  
**Oil Type:** VOLVO WB 102  
**Job No:** SWA411361-10



## SAMPLE INFORMATION

Sample Number	<b>VCP432405</b>	VCP419116	VCP390235	VCP342786
Sample Date	<b>29 Oct 2023</b>	21 Aug 2023	01 Nov 2022	20 Jun 2022
Machine Hours	<b>11063</b>	10636	8642	7636
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

**CALLANAN INDUSTRIES**  
 93 SULLIVAN RD  
 MONTICELLO, NY  
 US 12701  
 Contact: Service Manager



## OIL CONDITION

Visc @ 40°C	cSt	<b>41.6</b>	41.5	41.8	42.1
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T:  
F:



## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>14</b>	35	12	13
Sodium	ppm	<b>7</b>	9	8	9
Potassium	ppm	<b>0</b>	5	0	8

## 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>82</b>	51	24	14
Copper	ppm	<b>1</b>	0	0	<1
Lead	ppm	<b>&lt;1</b>	0	<1	1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	15	1	1
Chromium	ppm	<b>1</b>	1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	2	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>3023</b>	3941	3867	1871
Magnesium	ppm	<b>18</b>	20	17	12
Zinc	ppm	<b>1340</b>	1597	1621	1082
Phosphorus	ppm	<b>1190</b>	1267	1205	979
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>105</b>	146	132	95

**Depot:** CALMONNY  
**Unique No:** 10804174  
**Signed:** Jonathan Hester  
**Report Date:** 27 Dec 2023

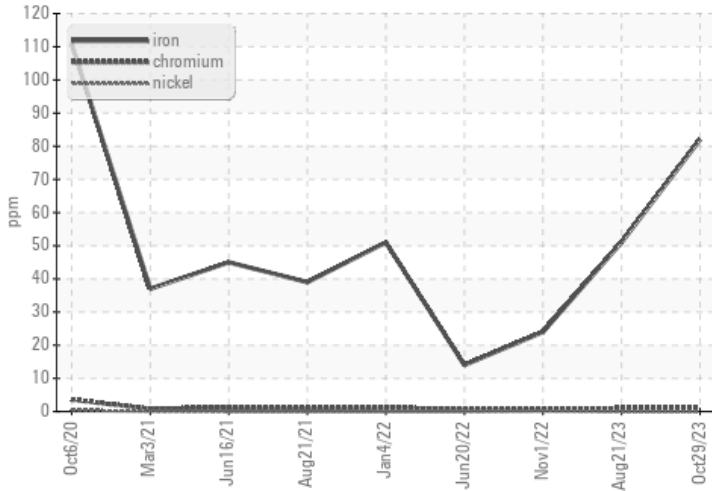


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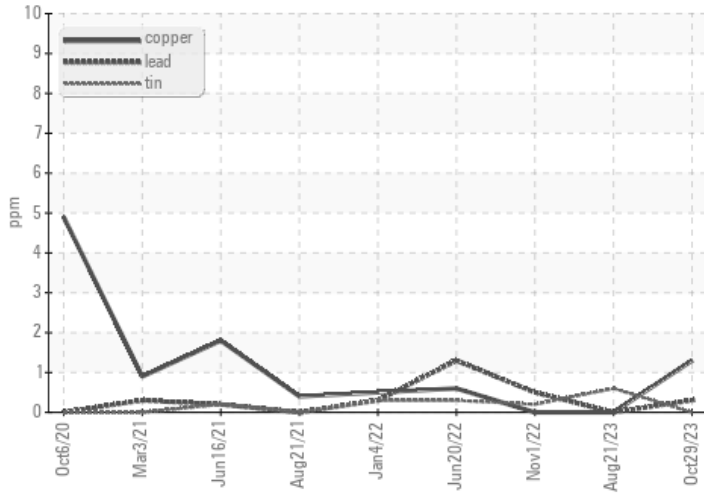


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

