



# CONSTRUCTION EQUIPMENT

620889 VOLVO L90H 623580 - REAR AXLE



**Sample No:** VCP432923  
**Oil Type:** VOLVO WB 102  
**Job No:** 620889



## SAMPLE INFORMATION

Sample Number	<b>VCP432923</b>	VCP435115	VCP349375	VCP296560
Sample Date	<b>17 Oct 2023</b>	17 Oct 2023	28 Jan 2022	30 Oct 2020
Machine Hours	<b>12999</b>	8196	10200	8650
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>40.8</b>	292	41.2	39.9
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## CONTAMINATION

Silicon	ppm	<b>11</b>	3	11	14
Sodium	ppm	<b>6</b>	0	8	8
Potassium	ppm	<b>3</b>	2	0	0



## WEAR METALS

Iron	ppm	<b>41</b>	128	23	21
Copper	ppm	<b>3</b>	3	2	3
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	2	1	<1
Chromium	ppm	<b>&lt;1</b>	2	<1	<1
Molybdenum	ppm	<b>2</b>	3	2	1
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	2	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>4128</b>	139	4205	4237
Magnesium	ppm	<b>29</b>	14	30	18
Zinc	ppm	<b>1716</b>	63	1613	1699
Phosphorus	ppm	<b>1329</b>	1079	1285	1351
Barium	ppm	<b>&lt;1</b>	<1	0	0
Boron	ppm	<b>140</b>	198	128	129

## 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:** VOLVO0096  
**Unique No:** 10702389  
**Signed:** Wes Davis  
**Report Date:** 23 Oct 2023

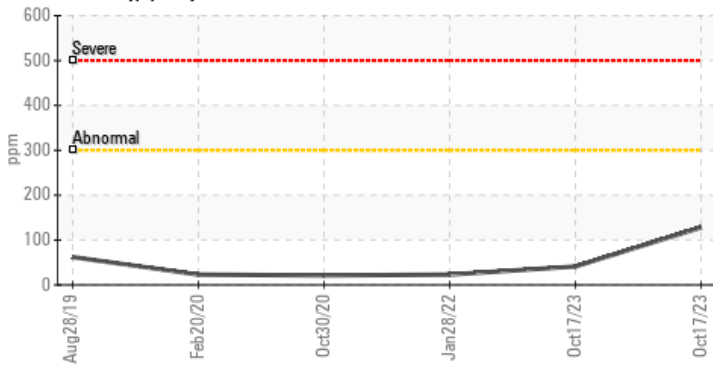


# CONSTRUCTION EQUIPMENT

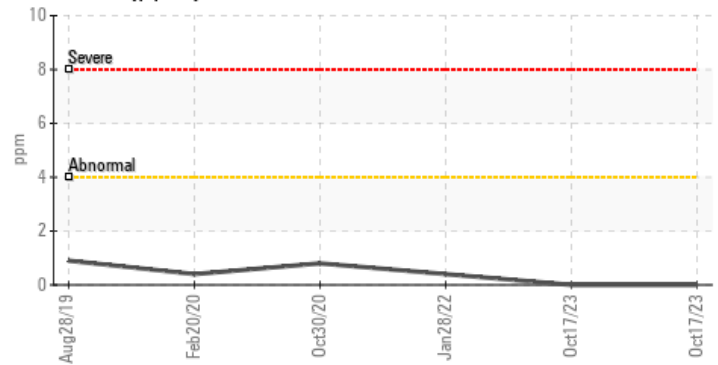


## GRAPHS

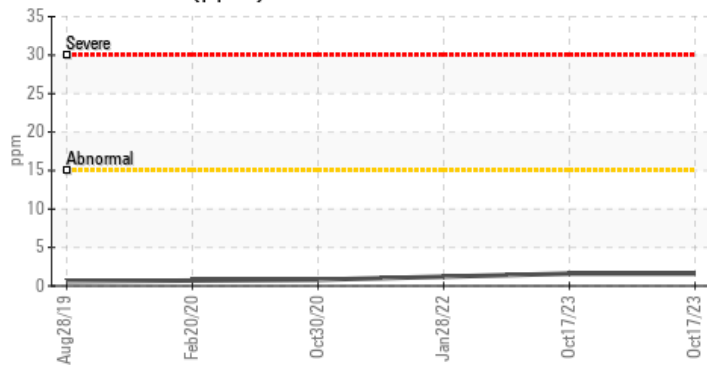
### Iron (ppm)



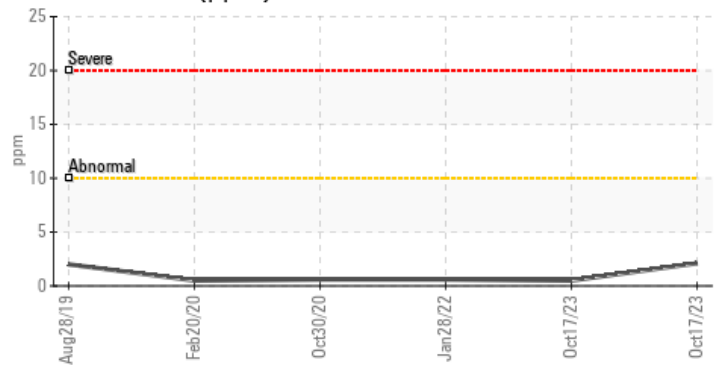
### Lead (ppm)



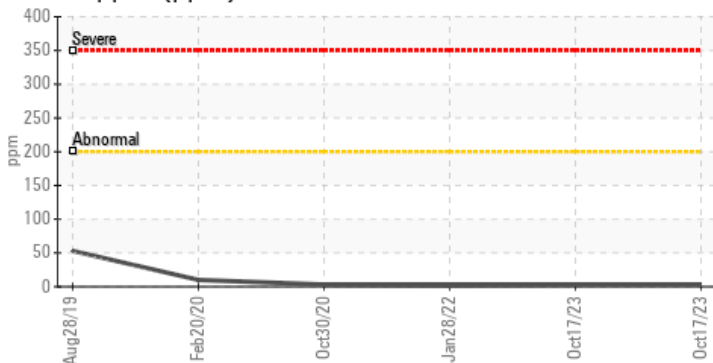
### Aluminum (ppm)



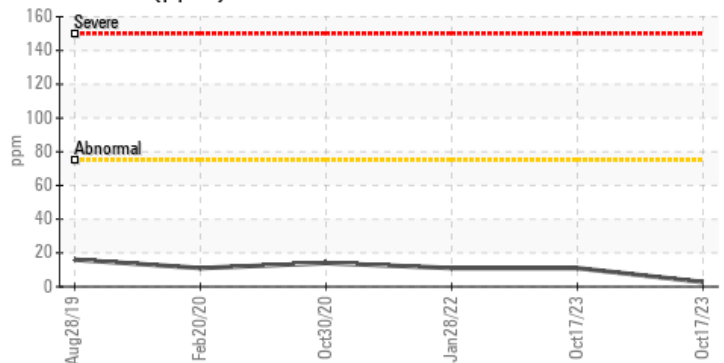
### Chromium (ppm)



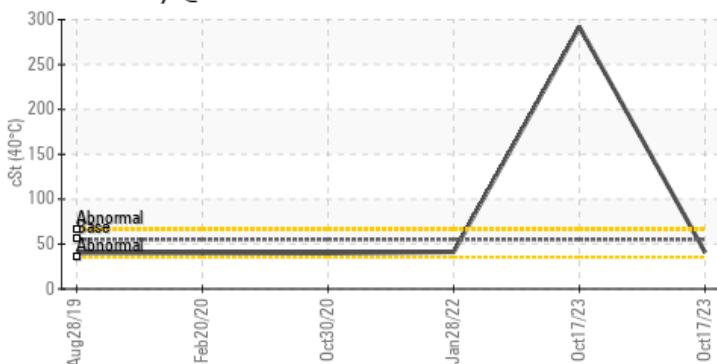
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

