



# CONSTRUCTION EQUIPMENT

## VOLVO L90F 68122 - REAR AXLE



**Sample No:** VCP431170  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP431170</b>	VCP359497	VCP345133	VCP317605
Sample Date	<b>20 Oct 2023</b>	15 Mar 2022	07 Dec 2021	11 Oct 2021
Machine Hours	<b>22060</b>	25099	24475	20556
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Not Changd	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**EISS BROTHERS**  
 28250 NEW YORK 37  
 WATERTOWN, NY  
 US 13601  
 Contact: SERVICE MANAGER



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.4</b>	41.6	39.5	39.5
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T: (315)629-4370  
 F:



### CONTAMINATION

Silicon	ppm	<b>20</b>	14	10	22
Sodium	ppm	<b>4</b>	8	5	4
Potassium	ppm	<b>2</b>	0	<1	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>41</b>	10	20	44
Copper	ppm	<b>2</b>	<1	2	2
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>4144</b>	4112	4333	4018
Magnesium	ppm	<b>15</b>	16	15	13
Zinc	ppm	<b>1682</b>	1535	1662	1578
Phosphorus	ppm	<b>1388</b>	1268	1419	1277
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>140</b>	131	123	143

**Depot:** EISWAT  
**Unique No:** 10724395  
**Signed:** Wes Davis  
**Report Date:** 02 Nov 2023

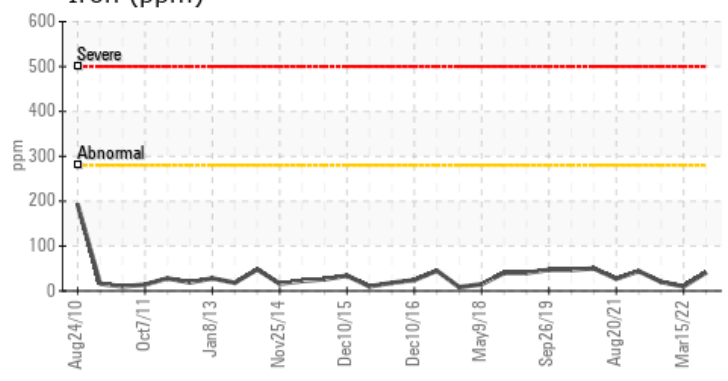


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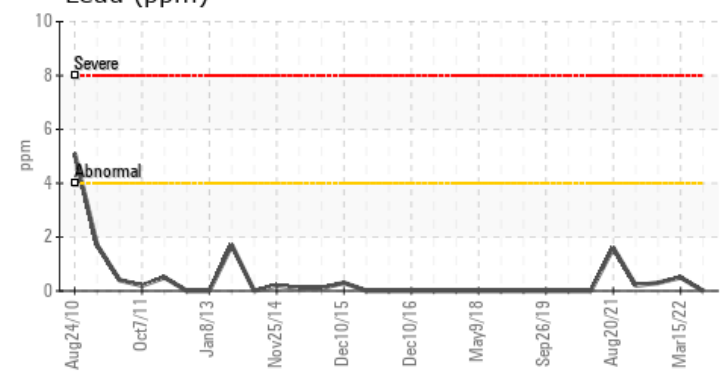


## GRAPHS

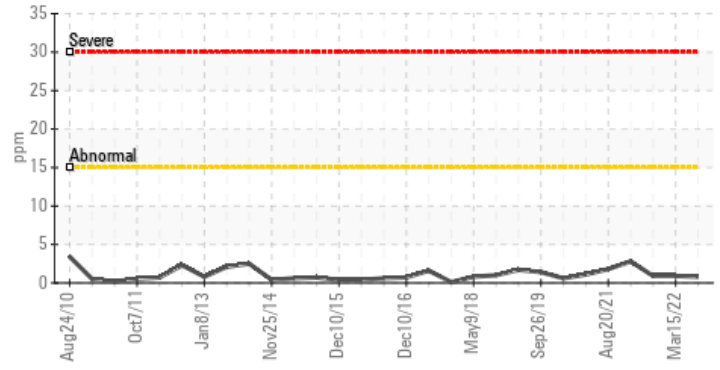
### Iron (ppm)



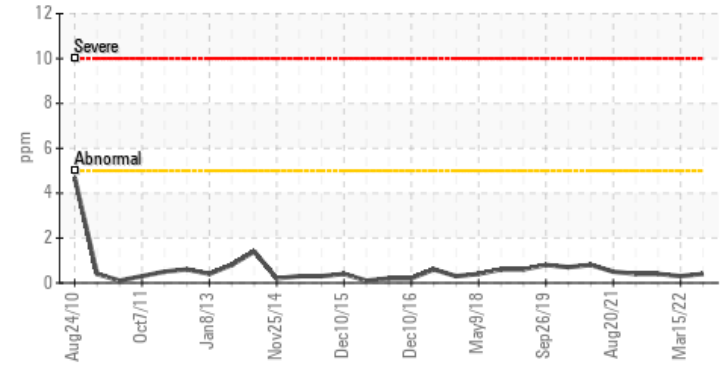
### Lead (ppm)



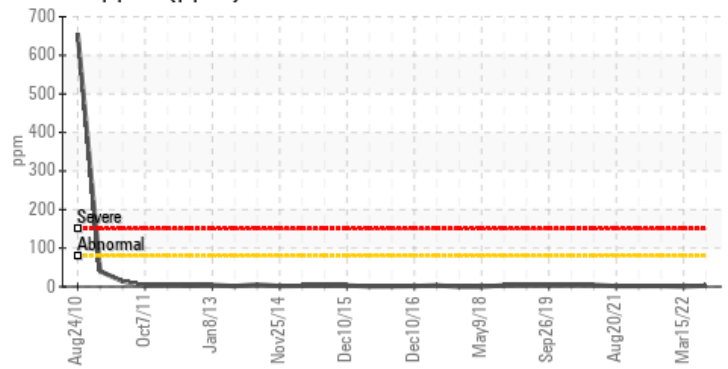
### Aluminum (ppm)



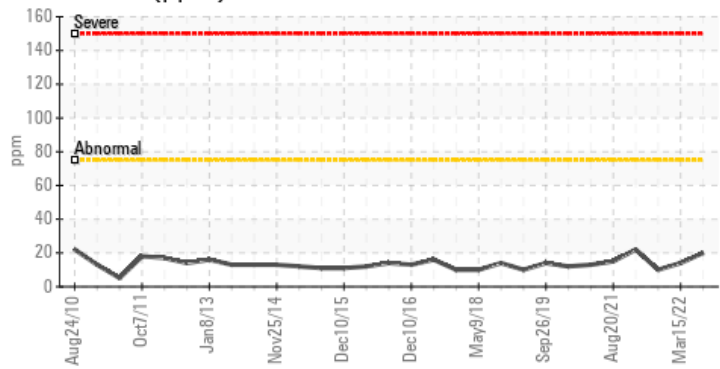
### Chromium (ppm)



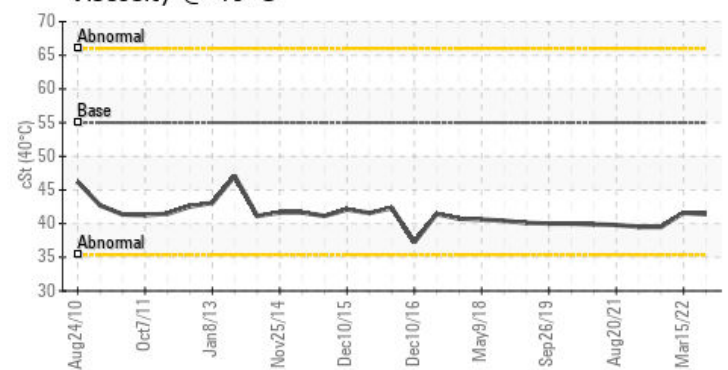
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

