



# CONSTRUCTION EQUIPMENT

## 9859 VOLVO L90H 623827 - FRONT AXLE



**Sample No:** VCP423104  
**Oil Type:** VOLVO WB 102  
**Job No:** 9859



### SAMPLE INFORMATION

Sample Number	<b>VCP423104</b>	VCP361948	VCP334645	VCP310390
Sample Date	<b>08 Dec 2023</b>	14 Feb 2022	22 Sep 2021	17 May 2021
Machine Hours	<b>8096</b>	5990	5645	5140
Oil Hours	<b>0</b>	2000	1500	1000
Oil Changed	<b>Changed</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**IAA - INSURANCE AUTO AUCTIONS - ELKTON**  
 183 ZEITLER RD  
 ELKTON, MD  
 US 21921  
 Contact: Service Manager



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.9</b>	40.3	40.4	40.6
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T:  
F:



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>15</b>	11	10	11
Sodium	ppm	<b>0</b>	8	3	10
Potassium	ppm	<b>2</b>	1	1	<1

### 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>52</b>	66	52	38
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>1</b>	2	0	1
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>1</b>	2	2	2
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	2	1	1
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>4346</b>	4259	3963	4141
Magnesium	ppm	<b>15</b>	21	19	21
Zinc	ppm	<b>1684</b>	1771	1510	1559
Phosphorus	ppm	<b>1432</b>	1358	1292	1302
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>145</b>	126	146	131

**Depot:** IAAELK  
**Unique No:** 10789024  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023

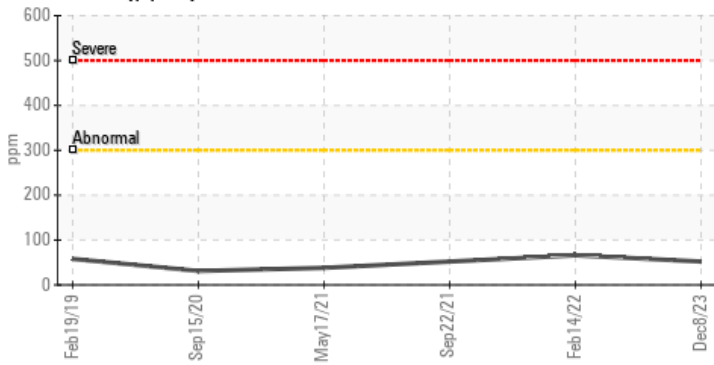


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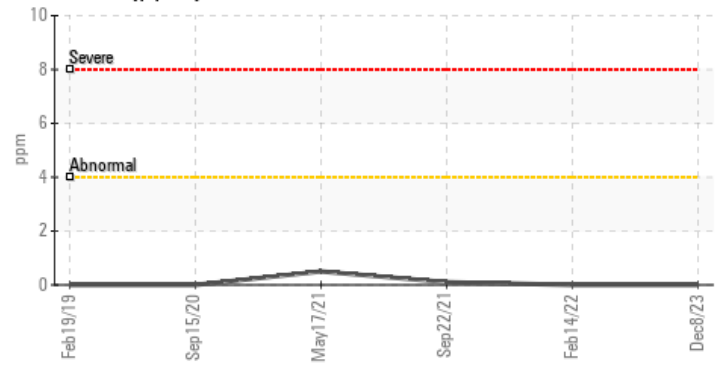


## GRAPHS

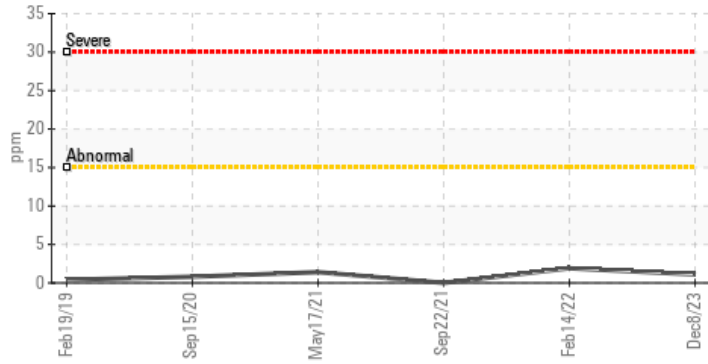
### Iron (ppm)



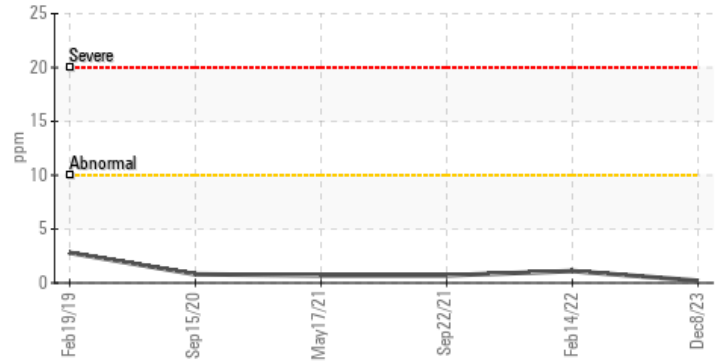
### Lead (ppm)



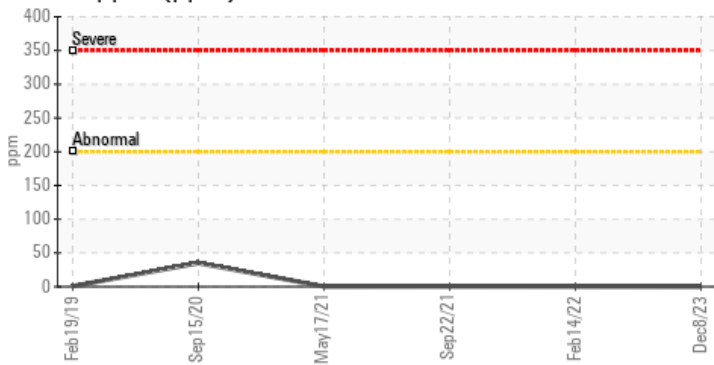
### Aluminum (ppm)



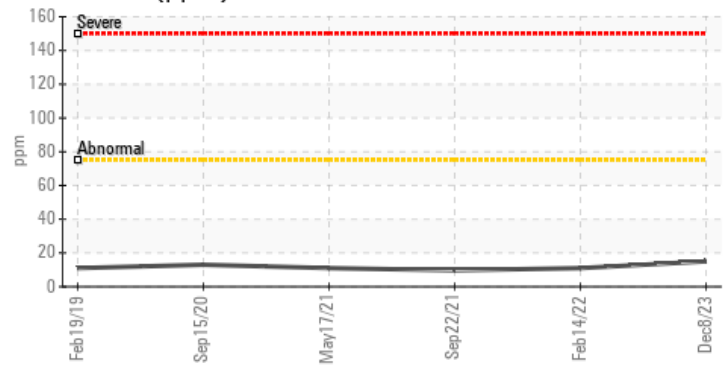
### Chromium (ppm)



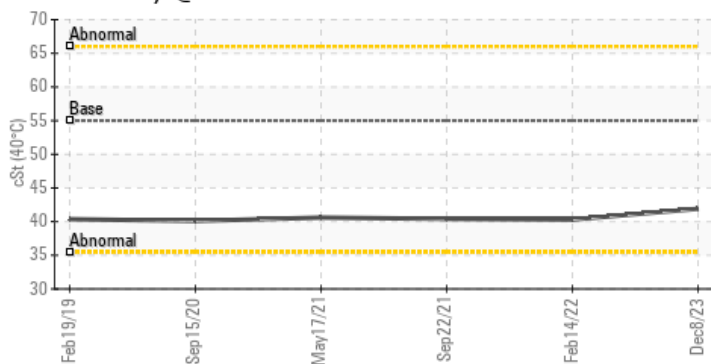
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

