



# CONSTRUCTION EQUIPMENT

## 579739 VOLVO L90H 624033 - REAR AXLE



**Sample No:** VCP422692  
**Oil Type:** VOLVO WB 102  
**Job No:** 579739



### SAMPLE INFORMATION

Sample Number	<b>VCP422692</b>	VCP400055	VCP359362	VCP305562
Sample Date	<b>18 Jul 2023</b>	07 Dec 2022	17 May 2022	13 Jan 2021
Machine Hours	<b>9461</b>	8375	7309	5018
Oil Hours	<b>1400</b>	2000	1300	1000
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
rturner@ripatampa.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.8</b>	41.6	40.9	42.4
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### CONTAMINATION

Silicon	ppm	<b>22</b>	13	13	15
Sodium	ppm	<b>2</b>	11	9	10
Potassium	ppm	<b>0</b>	0	2	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>34</b>	44	34	13
Copper	ppm	<b>2</b>	4	3	1
Lead	ppm	<b>0</b>	<1	0	4
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	7	7	7
Nickel	ppm	<b>0</b>	0	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>	1	1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3850</b>	4012	3778	4227
Magnesium	ppm	<b>16</b>	36	32	35
Zinc	ppm	<b>1520</b>	1529	1590	1654
Phosphorus	ppm	<b>1284</b>	1256	1215	1317
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>112</b>	140	148	125

**Depot:** RIPTAM  
**Unique No:** 10572476  
**Signed:** Wes Davis  
**Report Date:** 25 Jul 2023

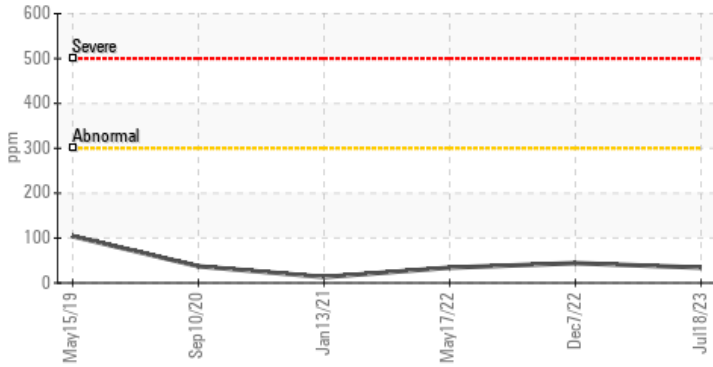


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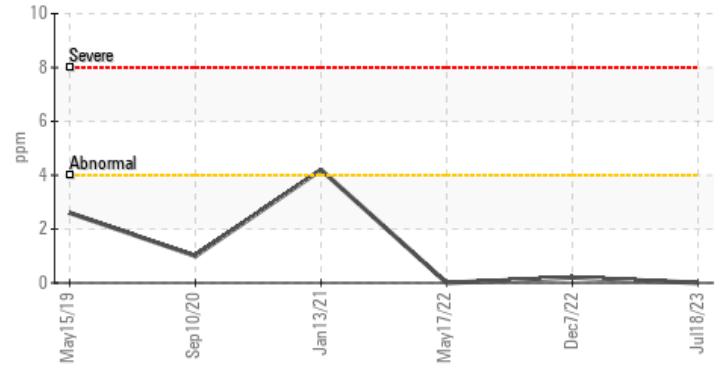


## GRAPHS

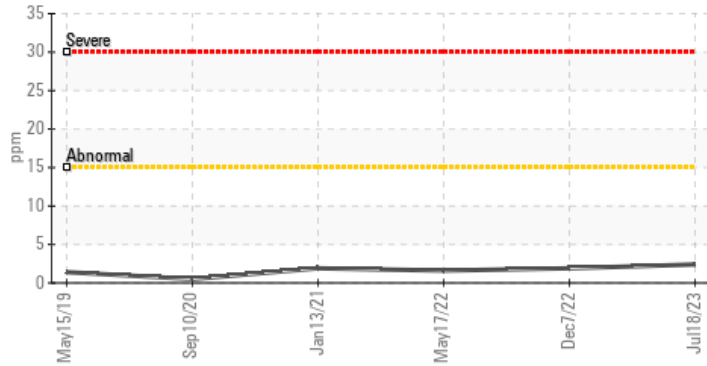
### Iron (ppm)



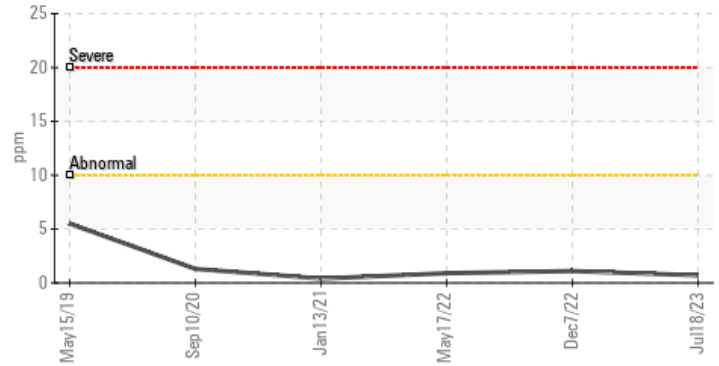
### Lead (ppm)



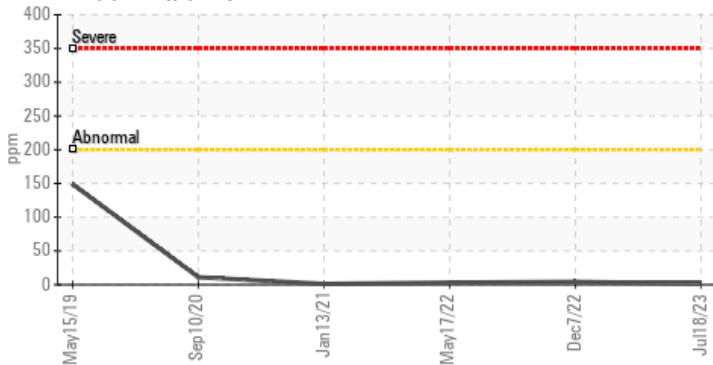
### Aluminum (ppm)



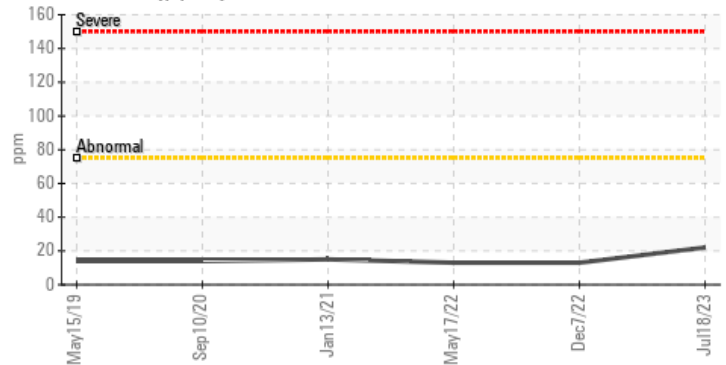
### Chromium (ppm)



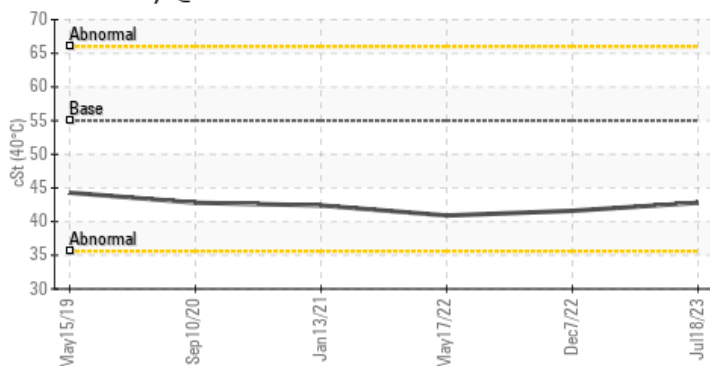
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

