



# CONSTRUCTION EQUIPMENT

SW1020029 VOLVO L90F 68176 - FRONT AXLE



**Sample No:** VCP425634  
**Oil Type:** VOLVO WB 102  
**Job No:** SW1020029



## SAMPLE INFORMATION

Sample Number	<b>VCP425634</b>	VCP189452	VCP154495	---
Sample Date	<b>09 Jun 2023</b>	21 Jul 2017	12 Sep 2013	---
Machine Hours	<b>15077</b>	9510	2497	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	N/A	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>41.1</b>	40.74	48.92	---
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>13</b>	16	21	---
Sodium	ppm	<b>8</b>	1	1	---
Potassium	ppm	<b>0</b>	0	<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>30</b>	53	92	---
Copper	ppm	<b>0</b>	0	<1	---
Lead	ppm	<b>&lt;1</b>	0	1	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>0</b>	<1	<1	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>&lt;1</b>	0	0	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	2	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>4199</b>	3969	3358	---
Magnesium	ppm	<b>16</b>	11	10	---
Zinc	ppm	<b>1667</b>	1554	1333	---
Phosphorus	ppm	<b>1324</b>	1253	1223	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>149</b>	114	102	---

**Depot:** PAVPHO  
**Unique No:** 10522364  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2023

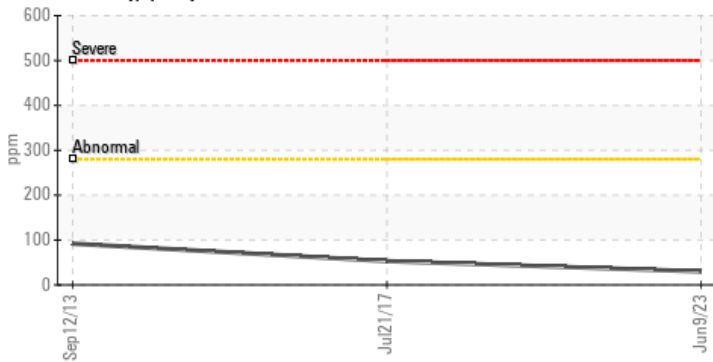


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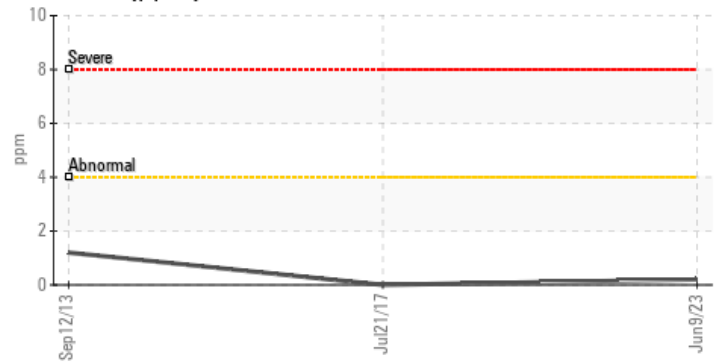


## GRAPHS

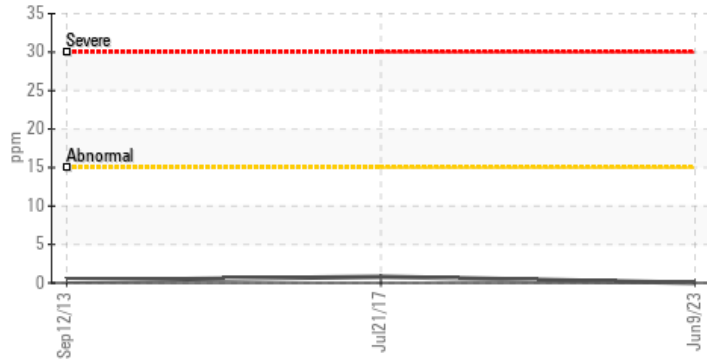
### Iron (ppm)



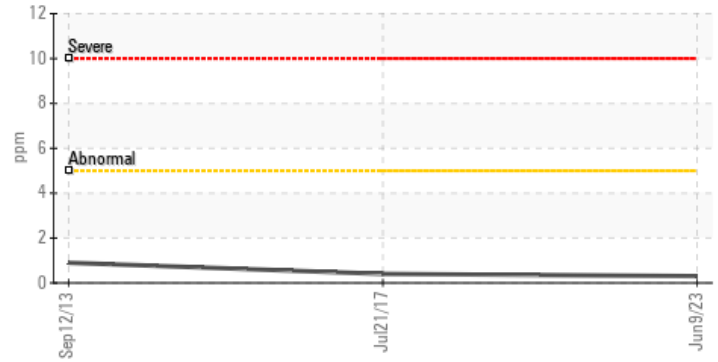
### Lead (ppm)



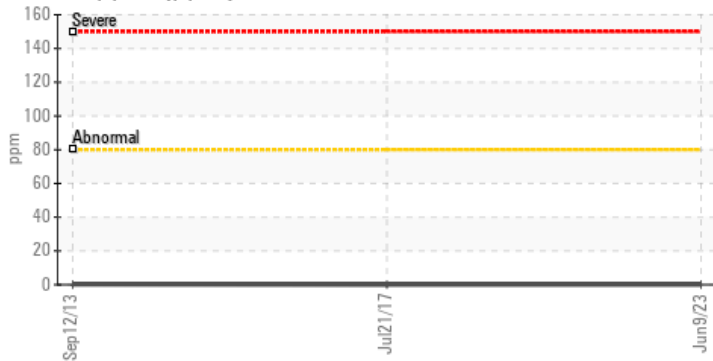
### Aluminum (ppm)



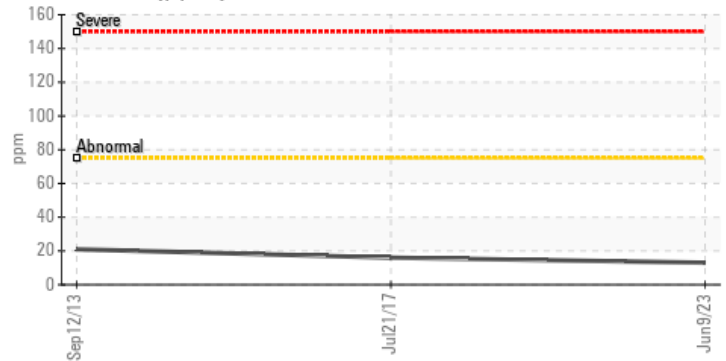
### Chromium (ppm)



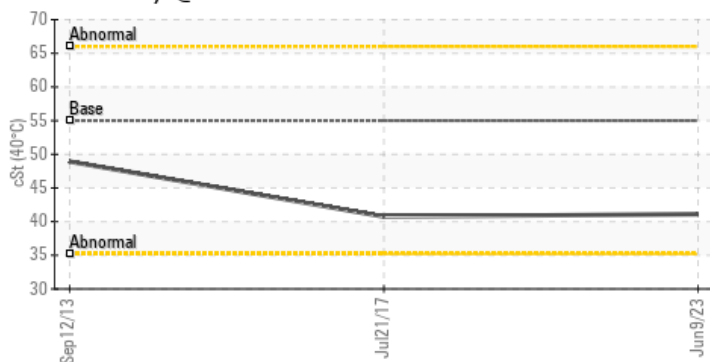
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

