



# CONSTRUCTION EQUIPMENT

## 280 VOLVO L90H 623125 - FRONT AXLE



**Sample No:** VCP350227  
**Oil Type:** MOBIL WB 102  
**Job No:** 280



### SAMPLE INFORMATION

Sample Number	<b>VCP350227</b>	VCP287169	VCP285249	VCP227401
Sample Date	<b>21 Jul 2023</b>	13 Dec 2021	27 Jul 2020	09 Jul 2019
Machine Hours	<b>11322</b>	8650	6515	4743
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 12345 MAPLEVIEW STREET  
 LAKESIDE, CA  
 US 92040  
 Contact: Mark Stewart  
 mark.stewart@vcesvolvo.com  
 T: X  
 F: X



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.7</b>	43.2	40.2	40.9
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### CONTAMINATION

Silicon	ppm	<b>9</b>	6	10	9
Sodium	ppm	<b>6</b>	0	5	1
Potassium	ppm	<b>0</b>	0	1	0



### WEAR METALS

Iron	ppm	<b>22</b>	9	9	48
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>2</b>	<1	0	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2220</b>	1173	2957	3938
Magnesium	ppm	<b>12</b>	4	9	14
Zinc	ppm	<b>1125</b>	706	1293	1296
Phosphorus	ppm	<b>873</b>	586	1020	1291
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>73</b>	42	138	115

### 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:** VOLVO4488  
**Unique No:** 10585702  
**Signed:** Wes Davis  
**Report Date:** 03 Aug 2023

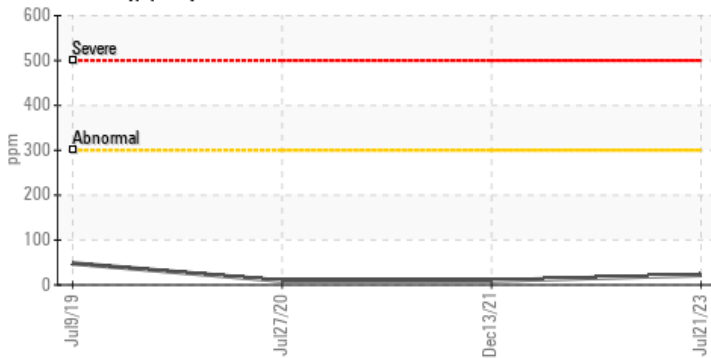


# CONSTRUCTION EQUIPMENT

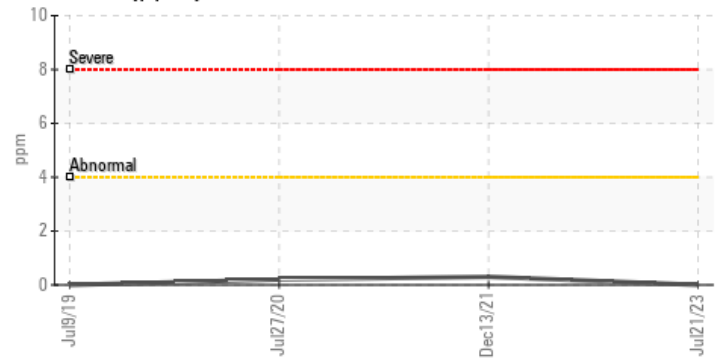


## GRAPHS

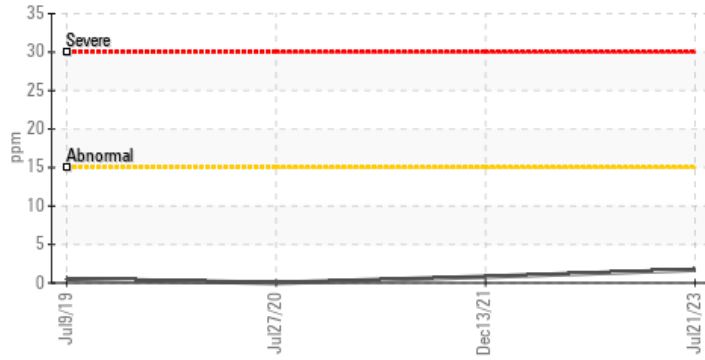
### Iron (ppm)



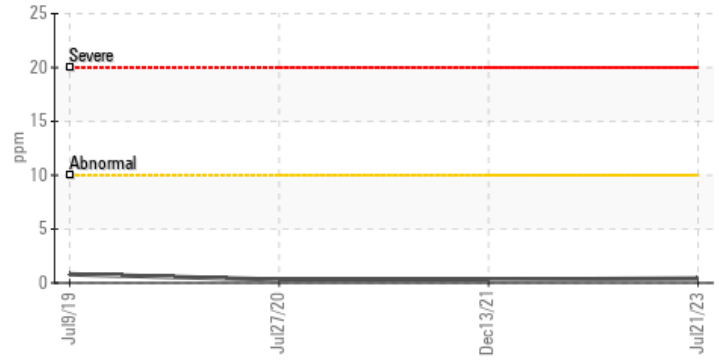
### Lead (ppm)



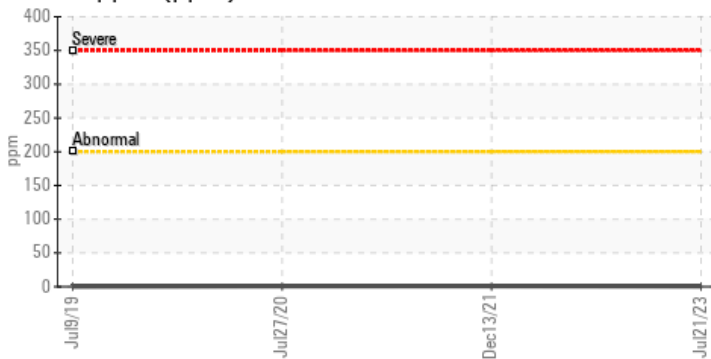
### Aluminum (ppm)



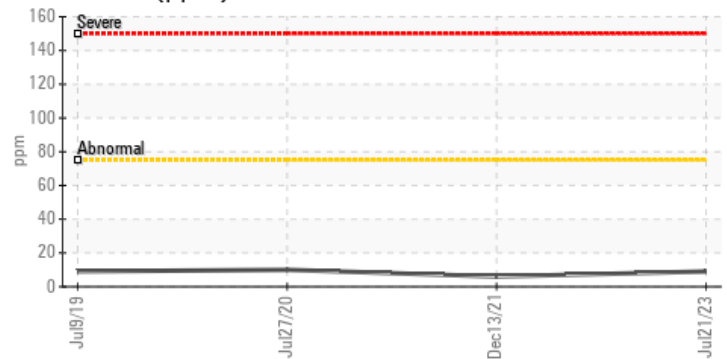
### Chromium (ppm)



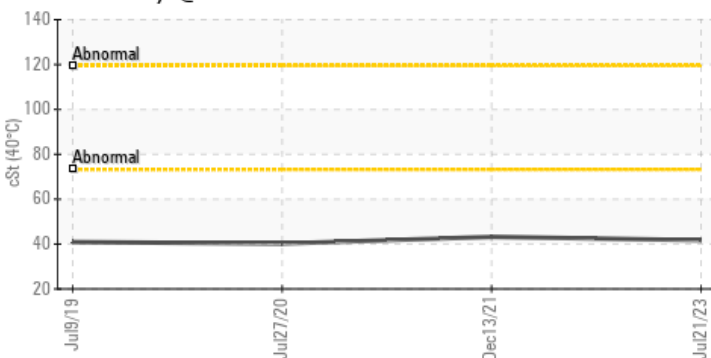
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

