



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 67 (S/N 342048) - BRAKE COOLING SYSTEM



**Sample No:** VCP423707  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP423707</b>	VCP400446	VCP396282	VCP323858
Sample Date	<b>07 Jun 2023</b>	14 Mar 2023	16 Nov 2022	16 May 2022
Machine Hours	<b>0</b>	13996	13328	11709
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>44.1</b>	43.8	44.1	44.0
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### CONTAMINATION

Silicon	ppm	<b>14</b>	11	14	14
Sodium	ppm	<b>0</b>	2	6	7
Potassium	ppm	<b>3</b>	2	<1	1

### WEAR METALS

Iron	ppm	<b>37</b>	27	42	30
Copper	ppm	<b>61</b>	62	88	80
Lead	ppm	<b>0</b>	<1	2	<1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	1	1
Nickel	ppm	<b>&lt;1</b>	<1	1	1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>3746</b>	3382	4171	3926
Magnesium	ppm	<b>16</b>	15	26	22
Zinc	ppm	<b>1507</b>	1424	1701	1576
Phosphorus	ppm	<b>1281</b>	1261	1341	1343
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>136</b>	106	128	126

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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:** JMHMAR  
**Unique No:** 10713949  
**Signed:** Sean Felton  
**Report Date:** 30 Oct 2023

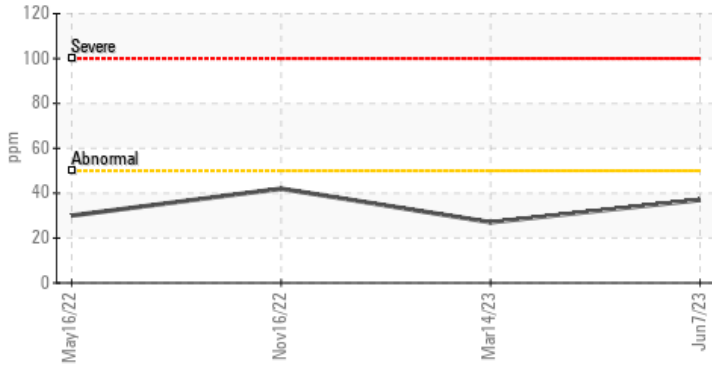


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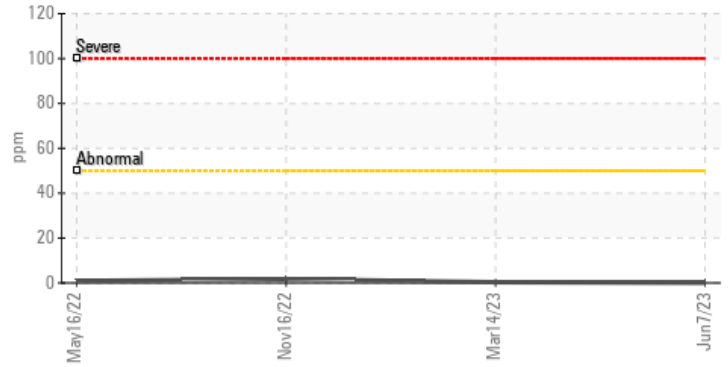


## GRAPHS

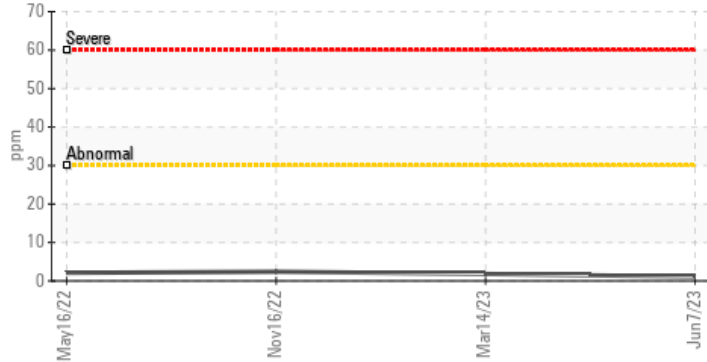
### Iron (ppm)



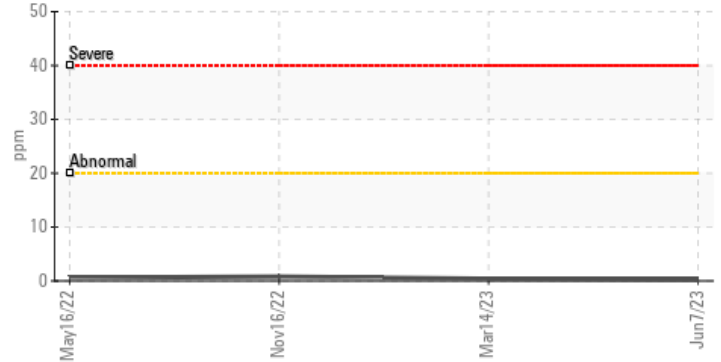
### Lead (ppm)



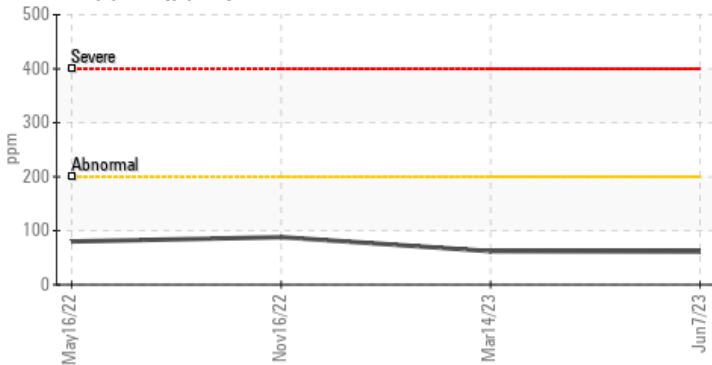
### Aluminum (ppm)



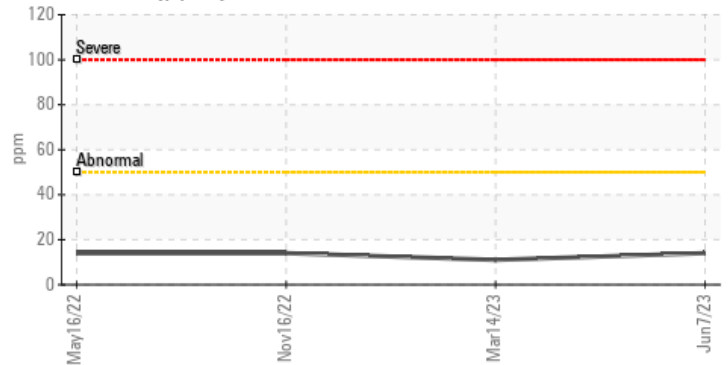
### Chromium (ppm)



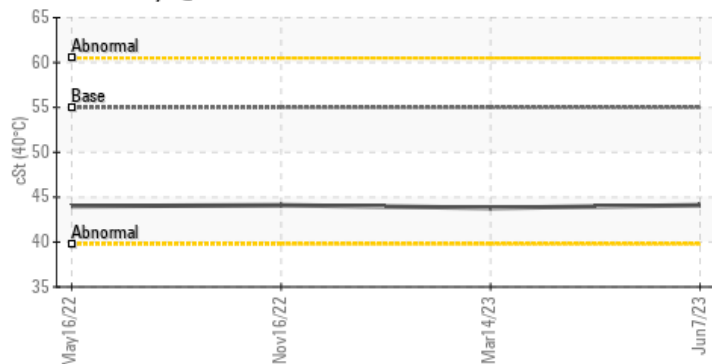
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

