



# CONSTRUCTION EQUIPMENT

## 661201 BCSW VOLVO A40G 342555 - BRAKE COOLING SYSTEM



**Sample No:** VCP439295  
**Oil Type:** VOLVO WB 102  
**Job No:** 661201 BCSW



### SAMPLE INFORMATION

Sample Number	<b>VCP439295</b>	VCP404977	VCP363298	VCP287967
Sample Date	<b>02 Feb 2024</b>	21 Apr 2023	07 Jun 2022	11 Sep 2020
Machine Hours	<b>11136</b>	9562	7678	4128
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	N/A
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.6</b>	42.9	42.0	41.9
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>13</b>	13	13	18
Sodium	ppm	<b>8</b>	5	6	7
Potassium	ppm	<b>&lt;1</b>	0	2	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>22</b>	25	28	19
Copper	ppm	<b>167</b>	167	163	176
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	0
Nickel	ppm	<b>5</b>	4	3	6
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>&lt;1</b>	0	0	<1
Manganese	ppm	<b>1</b>	2	1	<1
Vanadium	ppm	<b>0</b>	0	0	1



### ADDITIVES

Calcium	ppm	<b>2923</b>	3201	3166	3385
Magnesium	ppm	<b>14</b>	17	13	7
Zinc	ppm	<b>1359</b>	1381	1427	1431
Phosphorus	ppm	<b>1301</b>	1221	1247	1317
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>121</b>	113	142	106

**Depot:** VOLVO0096  
**Unique No:** 10871816  
**Signed:** Sean Felton  
**Report Date:** 12 Feb 2024

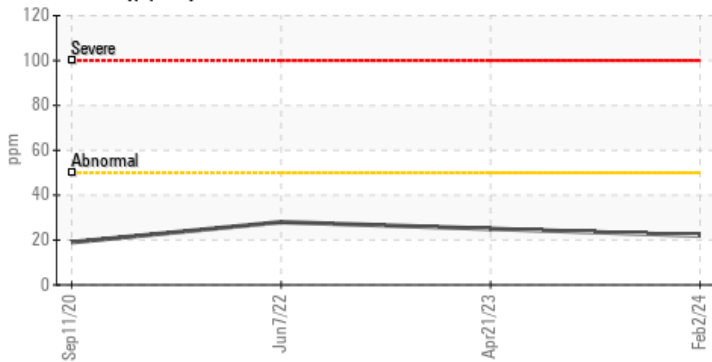


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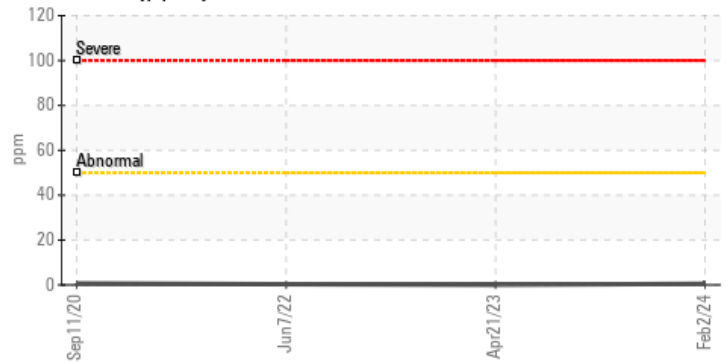


## GRAPHS

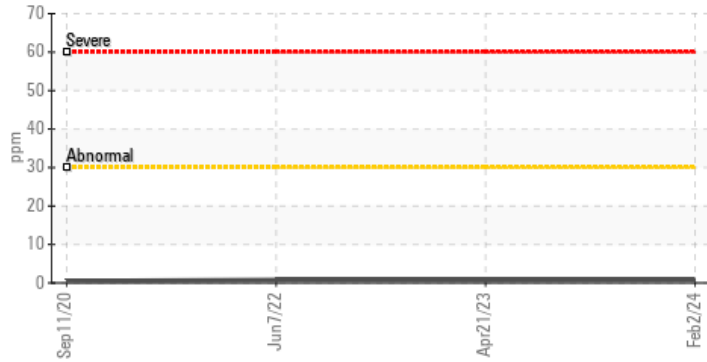
### Iron (ppm)



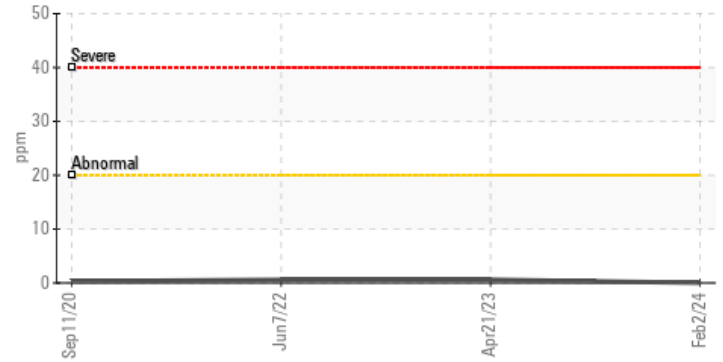
### Lead (ppm)



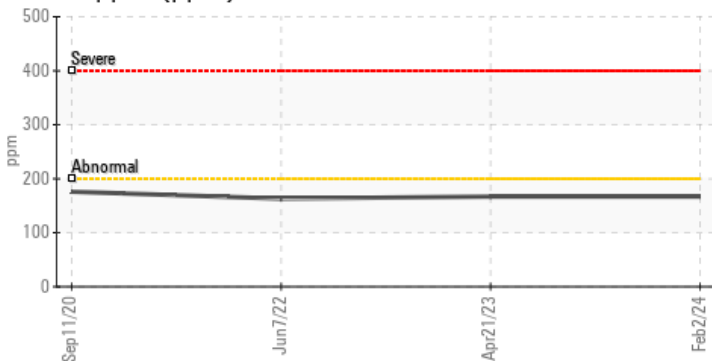
### Aluminum (ppm)



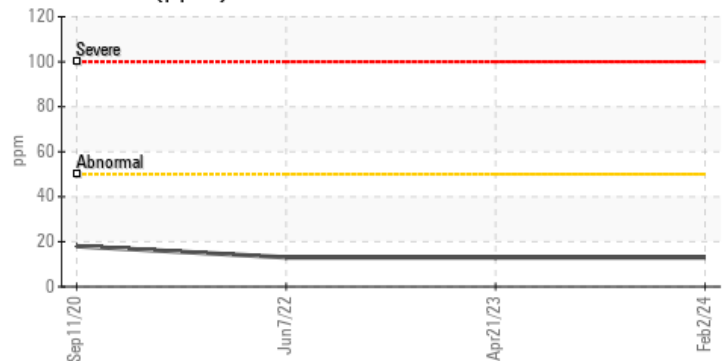
### Chromium (ppm)



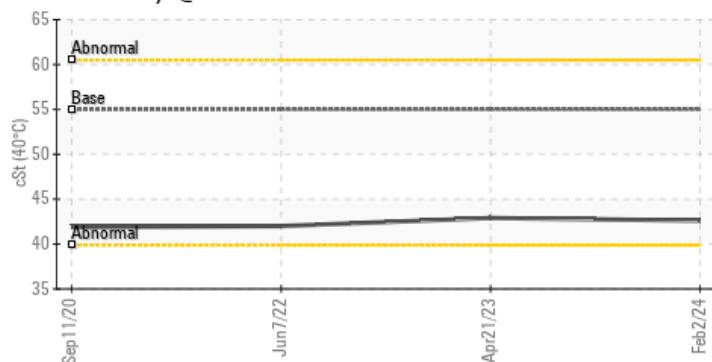
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

