



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352852 - BRAKE COOLING SYSTEM



**Sample No:** VCP451189  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP451189</b>	VCP393796	VCP364584	VCP357454
Sample Date	<b>09 May 2024</b>	10 Mar 2023	18 Aug 2022	01 Apr 2022
Machine Hours	<b>5118</b>	2973	1982	1061
Oil Hours	<b>0</b>	2973	500	1061
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	ABNORMAL

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>44.0</b>	39.6	39.7	39.6
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>11</b>	21	19	▲ 136
Sodium	ppm	<b>3</b>	10	9	13
Potassium	ppm	<b>0</b>	0	2	5

### 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>14</b>	21	14	▲ 219
Copper	ppm	<b>97</b>	▲ 218	170	71
Lead	ppm	<b>2</b>	2	<1	4
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	1	16
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>2</b>	<1	<1	<1
Nickel	ppm	<b>1</b>	6	5	5
Titanium	ppm	<b>0</b>	0	0	1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	2	<1	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3415</b>	3389	3582	3769
Magnesium	ppm	<b>36</b>	14	7	20
Zinc	ppm	<b>1415</b>	1504	1572	1458
Phosphorus	ppm	<b>1149</b>	1238	1290	1256
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>143</b>	109	108	122

**Depot:** RIPTAM  
**Unique No:** 11030517  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024



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## GRAPHS

