



# CONSTRUCTION EQUIPMENT

## 607016 VOLVO A40F 342498 - BRAKE COOLING SYSTEM



**Sample No:** VCP426192  
**Oil Type:** VOLVO WB 102  
**Job No:** 607016



### SAMPLE INFORMATION

Sample Number	<b>VCP426192</b>	VCP400033	VCP375942	VCP332201
Sample Date	<b>18 Sep 2023</b>	27 Feb 2023	15 Jun 2022	05 Jan 2022
Machine Hours	<b>8432</b>	7463	6561	5591
Oil Hours	<b>4000</b>	3000	2000	1500
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### 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>41.9</b>	41.9	42.0	42.2
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### CONTAMINATION

Silicon	ppm	<b>11</b>	12	12	13
Sodium	ppm	<b>4</b>	8	10	10
Potassium	ppm	<b>2</b>	0	0	<1



### WEAR METALS

Iron	ppm	<b>14</b>	16	12	12
Copper	ppm	<b>180</b>	139	122	97
Lead	ppm	<b>&lt;1</b>	2	0	2
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	2	1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>5</b>	5	6	6
Nickel	ppm	<b>3</b>	2	2	3
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3332</b>	3490	3584	4012
Magnesium	ppm	<b>35</b>	40	39	46
Zinc	ppm	<b>1420</b>	1486	1441	1623
Phosphorus	ppm	<b>1182</b>	1151	1193	1342
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>119</b>	109	123	126

### 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:** RIPTAM  
**Unique No:** 10709610  
**Signed:** Sean Felton  
**Report Date:** 25 Oct 2023



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## VOLVO GRAPHS

