



# CONSTRUCTION EQUIPMENT

## 701481 VOLVO A45G 352411 - BRAKE COOLING SYSTEM



**Sample No:** VCP446362  
**Oil Type:** VOLVO WB 102  
**Job No:** 701481



### SAMPLE INFORMATION

Sample Number	<b>VCP446362</b>	VCP430740	VCP427065	VCP377160
Sample Date	<b>10 Apr 2024</b>	22 Nov 2023	19 Jun 2023	30 Apr 2022
Machine Hours	<b>6878</b>	6275	5591	3478
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ORANGE COUNTY SOLID WASTE**  
 5901 YOUNG PINE ROAD  
 ORLANDO, FL  
 US 32829  
 Contact: MICHAEL BEEBE  
 michael.beebe@ocfl.net  
 T: (407)836-6652  
 F: (407)836-6650



### OIL CONDITION

Visc @ 40°C	cSt	<b>40.9</b>	40.9	40.9	39.7
-------------	-----	-------------	------	------	------



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>17</b>	18	18	18
Sodium	ppm	<b>6</b>	5	8	10
Potassium	ppm	<b>&lt;1</b>	<1	<1	<1

### 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.



### WEAR METALS

Iron	ppm	<b>30</b>	24	26	19
Copper	ppm	<b>199</b>	198	204	202
Lead	ppm	<b>4</b>	0	0	<1
Tin	ppm	<b>1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	1	<1	1
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>2</b>	<1	<1	<1
Nickel	ppm	<b>5</b>	5	7	7
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>1</b>	1	1	1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3312</b>	3359	3095	3599
Magnesium	ppm	<b>15</b>	18	10	9
Zinc	ppm	<b>1383</b>	1475	1396	1434
Phosphorus	ppm	<b>1245</b>	1293	1231	1367
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>101</b>	103	92	111

**Depot:** ORAORL  
**Unique No:** 10991848  
**Signed:** Don Baldrige  
**Report Date:** 24 Apr 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

