



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342096 - WET DISC BRAKE



**Sample No:** VCP454717  
**Oil Type:** VOLVO WB 101  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP454717</b>	VCP438710	VCP435407	VCP415567
Sample Date	<b>21 May 2024</b>	02 Apr 2024	13 Nov 2023	22 Aug 2023
Machine Hours	<b>10526</b>	10079	9583	9107
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>49.8</b>	48.6	48.8	48.4
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>13</b>	13	14	14
Sodium	ppm	<b>3</b>	2	0	3
Potassium	ppm	<b>2</b>	0	1	0



### WEAR METALS

Iron	ppm	<b>26</b>	34	33	33
Copper	ppm	<b>164</b>	235	249	221
Lead	ppm	<b>1</b>	2	0	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>1</b>	<1	1	3
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>4</b>	2	3	2
Nickel	ppm	<b>3</b>	4	4	4
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2754</b>	2622	2687	2728
Magnesium	ppm	<b>54</b>	22	23	29
Zinc	ppm	<b>1299</b>	1211	1241	1226
Phosphorus	ppm	<b>1106</b>	1036	1054	1022
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>82</b>	81	84	86

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other 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:** SAIBIR  
**Unique No:** 11057927  
**Signed:** Don Baldrige  
**Report Date:** 01 Jun 2024



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## VOLVO GRAPHS

