



# CONSTRUCTION EQUIPMENT

## SWO-072403 VOLVO A60H 340039 - WET DISC BRAKE



**Sample No:** VCP440082  
**Oil Type:** VOLVO WB 102  
**Job No:** SWO-072403



### SAMPLE INFORMATION

Sample Number	<b>VCP440082</b>	VCP450916	VCP441435	VCP435428
Sample Date	<b>31 May 2024</b>	07 May 2024	18 Jan 2024	27 Sep 2023
Machine Hours	<b>9784</b>	9022	8521	8052
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>53.2</b>	50.0	50.5	48.3
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### CONTAMINATION

Water	%	<b>0.357</b>	NEG	NEG	NEG
Silicon	ppm	<b>28</b>	27	24	21
Sodium	ppm	<b>3</b>	<1	5	4
Potassium	ppm	<b>0</b>	3	2	2



### WEAR METALS

Iron	ppm	<b>24</b>	57	48	51
Copper	ppm	<b>222</b>	251	215	261
Lead	ppm	<b>0</b>	1	<1	2
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	4	4	4
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>7</b>	3	<1	2
Nickel	ppm	<b>0</b>	3	3	4
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	2	2	2
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>3124</b>	3167	2741	2652
Magnesium	ppm	<b>36</b>	26	27	18
Zinc	ppm	<b>1178</b>	1315	1130	1158
Phosphorus	ppm	<b>1106</b>	1203	943	1020
Barium	ppm	<b>0</b>	2	<1	0
Boron	ppm	<b>126</b>	88	75	55

### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** SAIBIR  
**Unique No:** 11071132  
**Signed:** Doug Bogart  
**Report Date:** 18 Jun 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

