



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353220 - WET DISC BRAKE



**Sample No:** VCP437562  
**Oil Type:** VOLVO WET BRAKE TRANSAXLE OIL  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP437562</b>	VCP438785	VCP426663	---
Sample Date	<b>26 Apr 2024</b>	22 Mar 2024	26 Jul 2023	---
Machine Hours	<b>3589</b>	3496	2142	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Changed</b>	Not Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.9</b>	41.0	40.4	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>▲ 25</b>	21	20	---
Sodium	ppm	<b>10</b>	9	12	---
Potassium	ppm	<b>2</b>	3	0	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>▲ 79</b>	83	42	---
Copper	ppm	<b>68</b>	68	43	---
Lead	ppm	<b>0</b>	1	0	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>2</b>	3	<1	---
Chromium	ppm	<b>1</b>	2	1	---
Molybdenum	ppm	<b>&lt;1</b>	1	0	---
Nickel	ppm	<b>7</b>	7	6	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	2	1	---
Vanadium	ppm	<b>0</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>3327</b>	3672	3752	---
Magnesium	ppm	<b>9</b>	9	13	---
Zinc	ppm	<b>1465</b>	1555	1648	---
Phosphorus	ppm	<b>1307</b>	1468	1358	---
Barium	ppm	<b>0</b>	1	0	---
Boron	ppm	<b>131</b>	137	124	---

**Depot:** VOLVO0090  
**Unique No:** 11006749  
**Signed:** Jonathan Hester  
**Report Date:** 05 May 2024



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## VOLVO GRAPHS

