



# CONSTRUCTION EQUIPMENT

## 23-04 VOLVO A45D 352857 - DIESEL ENGINE



**Sample No:** VCP149168

**Oil Type:** NOT GIVEN

**Job No:** 23-04



### SAMPLE INFORMATION

Sample Number	<b>VCP149168</b>	VCP212402	VCP138180	---
Sample Date	<b>18 Oct 2023</b>	21 May 2022	11 Dec 2021	---
Machine Hours	<b>2324</b>	926	441	---
Oil Hours	<b>674</b>	485	441	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	11.9	10.7	---
Base Number (BN)	mg KOH/g	<b>7.9</b>	7.1	7.3	---
Oxidation (PA)	%	<b>59</b>	39	67	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



### CONTAMINATION

Soot %	%	<b>0.6</b>	0.3	1.5	---
Nitration (PA)	%	<b>70</b>	63	90	---
Sulfation (PA)	%	<b>55</b>	49	63	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.3	---
Silicon	ppm	<b>5</b>	10	30	---
Sodium	ppm	<b>&lt;1</b>	<1	6	---
Potassium	ppm	<b>1</b>	0	1	---



### WEAR METALS

Iron	ppm	<b>17</b>	14	30	---
Copper	ppm	<b>32</b>	555	129	---
Lead	ppm	<b>&lt;1</b>	5	2	---
Tin	ppm	<b>1</b>	2	7	---
Aluminum	ppm	<b>3</b>	2	<1	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>61</b>	22	80	---
Nickel	ppm	<b>7</b>	6	6	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>&lt;1</b>	<1	2	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1125</b>	2173	2213	---
Magnesium	ppm	<b>901</b>	69	123	---
Zinc	ppm	<b>1224</b>	1062	1181	---
Phosphorus	ppm	<b>1022</b>	874	1063	---
Barium	ppm	<b>7</b>	0	0	---
Boron	ppm	<b>11</b>	14	57	---

**Depot:** GLOPLE

**Unique No:** 10737809

**Signed:** Don Baldrige

**Report Date:** 14 Nov 2023



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## GRAPHS

