



# CONSTRUCTION EQUIPMENT

## SPM647545-10 VOLVO A45G 352374 - DIESEL ENGINE



**Sample No:** VCP436134  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SPM647545-10



### SAMPLE INFORMATION

Sample Number	<b>VCP436134</b>	VCP330983	VCP340526	---
Sample Date	<b>06 Jan 2024</b>	02 Feb 2022	09 Dec 2021	---
Machine Hours	<b>4085</b>	2250	2247	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	Not Changd	N/A	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	14.2	10.9	---
Base Number (BN)	mg KOH/g	<b>9.2</b>	12.0	11	---
Oxidation (PA)	%	<b>81</b>	82	76	---

### 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 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

Water	%	<b>NEG</b>	NEG	0.103	---
Soot %	%	<b>0.6</b>	0	0.3	---
Nitration (PA)	%	<b>76</b>	41	55	---
Sulfation (PA)	%	<b>60</b>	65	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.0	---
Silicon	ppm	<b>6</b>	8	7	---
Sodium	ppm	<b>2</b>	3	3	---
Potassium	ppm	<b>0</b>	0	0	---



### WEAR METALS

Iron	ppm	<b>16</b>	0	6	---
Copper	ppm	<b>4</b>	0	11	---
Lead	ppm	<b>2</b>	0	<1	---
Tin	ppm	<b>2</b>	0	<1	---
Aluminum	ppm	<b>4</b>	3	2	---
Chromium	ppm	<b>&lt;1</b>	0	<1	---
Molybdenum	ppm	<b>50</b>	42	38	---
Nickel	ppm	<b>1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	2	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1646</b>	1904	1886	---
Magnesium	ppm	<b>527</b>	555	470	---
Zinc	ppm	<b>1127</b>	1054	920	---
Phosphorus	ppm	<b>932</b>	1042	790	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>29</b>	80	52	---

**Depot:** VOLVO0092  
**Unique No:** 10822407  
**Signed:** Don Baldrige  
**Report Date:** 11 Jan 2024



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## GRAPHS

