



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352025 - DIESEL ENGINE



**Sample No:** VCP433327  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP433327</b>	VCP416984	VCP312934	VCP331586
Sample Date	<b>02 Apr 2024</b>	14 Feb 2024	11 Dec 2023	06 Nov 2023
Machine Hours	<b>10696</b>	10331	10033	9810
Oil Hours	<b>365</b>	298	92	216
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.9	13.2	12.9
Base Number (BN)	mg KOH/g	<b>8.8</b>	7.9	7.2	6.9
Oxidation (PA)	%	<b>74</b>	68	58	62

### 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 suitable for further service.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>64</b>	62	59	68
Sulfation (PA)	%	<b>57</b>	54	50	51
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	7	5	5
Sodium	ppm	<b>2</b>	3	1	2
Potassium	ppm	<b>2</b>	2	2	<1

### WEAR METALS

Iron	ppm	<b>5</b>	5	1	<1
Copper	ppm	<b>1</b>	<1	0	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>4</b>	4	3	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>66</b>	77	106	115
Nickel	ppm	<b>&lt;1</b>	2	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1

### ADDITIVES

Calcium	ppm	<b>1546</b>	1251	1259	1327
Magnesium	ppm	<b>531</b>	501	602	693
Zinc	ppm	<b>902</b>	790	821	931
Phosphorus	ppm	<b>791</b>	634	753	715
Barium	ppm	<b>0</b>	34	0	0
Boron	ppm	<b>74</b>	81	122	119

**Depot:** SCHGRE  
**Unique No:** 10989472  
**Signed:** Wes Davis  
**Report Date:** 22 Apr 2024



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## GRAPHS

