



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342373 - DIESEL ENGINE



**Sample No:** VCP399420  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP399420</b>	VCP436351	VCP445743	VCP398089
Sample Date	<b>12 Mar 2024</b>	08 Feb 2024	29 Nov 2023	30 Oct 2023
Machine Hours	<b>12715</b>	12572	12310	12103
Oil Hours	<b>143</b>	12572	207	146
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>13.1</b>	12.5	12.9	13.0
Base Number (BN)	mg KOH/g	<b>8.4</b>	7.5	7.0	7.6
Oxidation (PA)	%	<b>63</b>	58	59	58

### 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>0.2</b>	0.2	0.2	0.1
Nitration (PA)	%	<b>58</b>	70	68	65
Sulfation (PA)	%	<b>52</b>	49	49	50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	8	4	6
Sodium	ppm	<b>7</b>	6	9	5
Potassium	ppm	<b>5</b>	7	7	4



### WEAR METALS

Iron	ppm	<b>3</b>	3	3	<1
Copper	ppm	<b>2</b>	<1	0	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>5</b>	3	7	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>94</b>	121	131	115
Nickel	ppm	<b>2</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1363</b>	1220	1289	1290
Magnesium	ppm	<b>591</b>	634	686	693
Zinc	ppm	<b>848</b>	852	897	909
Phosphorus	ppm	<b>725</b>	747	726	735
Barium	ppm	<b>0</b>	12	0	0
Boron	ppm	<b>106</b>	128	142	125

**Depot:** SCHGRE  
**Unique No:** 10937558  
**Signed:** Wes Davis  
**Report Date:** 21 Mar 2024



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## GRAPHS

