



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342373 - DIESEL ENGINE



**Sample No:** VCP445743  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP445743</b>	VCP398089	VCP341878	VCP402950
Sample Date	<b>29 Nov 2023</b>	30 Oct 2023	09 Oct 2023	29 Aug 2023
Machine Hours	<b>12310</b>	12103	11957	11645
Oil Hours	<b>207</b>	146	312	266
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>12.9</b>	13.0	12.8	12.4
Base Number (BN)	mg KOH/g	<b>7.0</b>	7.6	7.2	10.4
Oxidation (PA)	%	<b>59</b>	58	63	80



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.2	0.1
Nitration (PA)	%	<b>68</b>	65	65	51
Sulfation (PA)	%	<b>49</b>	50	51	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.4
Silicon	ppm	<b>4</b>	6	5	4
Sodium	ppm	<b>9</b>	5	6	4
Potassium	ppm	<b>7</b>	4	5	3



### WEAR METALS

Iron	ppm	<b>3</b>	<1	3	3
Copper	ppm	<b>0</b>	<1	<1	0
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>7</b>	5	7	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>131</b>	115	100	31
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1289</b>	1290	1355	1494
Magnesium	ppm	<b>686</b>	693	609	435
Zinc	ppm	<b>897</b>	909	879	770
Phosphorus	ppm	<b>726</b>	735	750	620
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>142</b>	125	86	38

### 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.

**Depot:** SCHGRE  
**Unique No:** 10780139  
**Signed:** Don Baldrige  
**Report Date:** 13 Dec 2023



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## GRAPHS

