



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342010 - DIESEL ENGINE



**Sample No:** VCP447437  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP447437</b>	VCP447491	VCP433226	---
Sample Date	<b>09 Jul 2024</b>	07 May 2024	27 Mar 2024	---
Machine Hours	<b>10091</b>	9640	9342	---
Oil Hours	<b>451</b>	298	120	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.5	12.9	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	8.9	7.0	---
Oxidation (PA)	%	<b>79</b>	73	57	---

### 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	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>54</b>	55	62	---
Sulfation (PA)	%	<b>59</b>	56	48	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	4	8	---
Sodium	ppm	<b>3</b>	1	2	---
Potassium	ppm	<b>1</b>	2	2	---



### WEAR METALS

Iron	ppm	<b>2</b>	2	2	---
Copper	ppm	<b>0</b>	<1	<1	---
Lead	ppm	<b>&lt;1</b>	<1	0	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>1</b>	2	4	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>41</b>	62	124	---
Nickel	ppm	<b>&lt;1</b>	<1	0	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>&lt;1</b>	<1	0	---
Vanadium	ppm	<b>0</b>	<1	<1	---



### ADDITIVES

Calcium	ppm	<b>1612</b>	1499	1242	---
Magnesium	ppm	<b>456</b>	506	631	---
Zinc	ppm	<b>761</b>	869	780	---
Phosphorus	ppm	<b>723</b>	753	659	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>41</b>	68	150	---

**Depot:** SCHGRE  
**Unique No:** 11128799  
**Signed:** Wes Davis  
**Report Date:** 18 Jul 2024



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## GRAPHS

