



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 341476 - DIESEL ENGINE



**Sample No:** VCP450698  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP450698</b>	VCP435443	VCP433202	---
Sample Date	<b>10 Jul 2024</b>	07 May 2024	27 Mar 2024	---
Machine Hours	<b>18656</b>	18264	17973	---
Oil Hours	<b>392</b>	291	343	---
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>13.1</b>	13.4	13.3	---
Base Number (BN)	mg KOH/g	<b>8.9</b>	7.9	5.9	---
Oxidation (PA)	%	<b>96</b>	90	81	---

### 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>80</b>	85	101	---
Sulfation (PA)	%	<b>68</b>	64	59	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	4	5	---
Sodium	ppm	<b>4</b>	1	2	---
Potassium	ppm	<b>2</b>	2	2	---



### WEAR METALS

Iron	ppm	<b>4</b>	4	6	---
Copper	ppm	<b>0</b>	<1	<1	---
Lead	ppm	<b>2</b>	1	<1	---
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>47</b>	71	128	---
Nickel	ppm	<b>&lt;1</b>	<1	<1	---
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>1740</b>	1621	1364	---
Magnesium	ppm	<b>501</b>	570	637	---
Zinc	ppm	<b>838</b>	963	857	---
Phosphorus	ppm	<b>767</b>	842	671	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>50</b>	71	122	---

**Depot:** SCHGRE  
**Unique No:** 11128797  
**Signed:** Wes Davis  
**Report Date:** 18 Jul 2024



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## VOLVO GRAPHS

