



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352351 - DIESEL ENGINE



**Sample No:** VCP445491  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP445491</b>	VCP444076	VCP433558	VCP416816
Sample Date	<b>06 Jun 2024</b>	29 Apr 2024	02 Apr 2024	13 Feb 2024
Machine Hours	<b>9112</b>	8835	8612	8269
Oil Hours	<b>277</b>	223	343	298
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>12.3</b>	12.6	12.6	12.7
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.5	8.5	7.5
Oxidation (PA)	%	<b>78</b>	75	72	68



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>53</b>	52	66	64
Sulfation (PA)	%	<b>60</b>	59	56	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	7	6
Sodium	ppm	<b>4</b>	3	4	5
Potassium	ppm	<b>1</b>	<1	3	3



### WEAR METALS

Iron	ppm	<b>3</b>	2	4	4
Copper	ppm	<b>0</b>	1	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	3	4	4
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>39</b>	50	73	84
Nickel	ppm	<b>0</b>	0	<1	1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	<1	<1



### ADDITIVES

Calcium	ppm	<b>1673</b>	1735	1503	1268
Magnesium	ppm	<b>516</b>	543	546	518
Zinc	ppm	<b>906</b>	937	894	801
Phosphorus	ppm	<b>819</b>	825	794	637
Barium	ppm	<b>0</b>	0	0	34
Boron	ppm	<b>49</b>	74	83	82

### 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:** 11084097  
**Signed:** Sean Felton  
**Report Date:** 19 Jun 2024



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## VOLVO GRAPHS

