



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342658 - DIESEL ENGINE



**Sample No:** VCP445494  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP445494</b>	VCP447438	VCP433284	VCP416950
Sample Date	<b>06 Jun 2024</b>	29 Apr 2024	02 Apr 2024	13 Feb 2024
Machine Hours	<b>11039</b>	10764	10545	10200
Oil Hours	<b>275</b>	219	345	301
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>12.6</b>	12.7	12.8	12.8
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.7	8.6	7.9
Oxidation (PA)	%	<b>79</b>	76	72	67

### 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	0.3	0.2
Nitration (PA)	%	<b>55</b>	52	66	66
Sulfation (PA)	%	<b>61</b>	59	56	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	6	6
Sodium	ppm	<b>3</b>	2	4	4
Potassium	ppm	<b>&lt;1</b>	<1	3	2



### WEAR METALS

Iron	ppm	<b>5</b>	3	6	7
Copper	ppm	<b>&lt;1</b>	2	2	2
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>7</b>	6	6	5
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>42</b>	50	73	82
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>1813</b>	1733	1512	1242
Magnesium	ppm	<b>561</b>	537	548	507
Zinc	ppm	<b>985</b>	929	905	791
Phosphorus	ppm	<b>877</b>	820	800	625
Barium	ppm	<b>0</b>	0	0	34
Boron	ppm	<b>52</b>	73	82	77

**Depot:** SCHGRE  
**Unique No:** 11084096  
**Signed:** Wes Davis  
**Report Date:** 19 Jun 2024



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## GRAPHS

