



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 340668 - DIESEL ENGINE



**Sample No:** VCP405985  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP405985</b>	VCP406123	VCP405994	VCP386179
Sample Date	<b>12 Sep 2023</b>	01 Aug 2023	20 Jun 2023	10 May 2023
Machine Hours	<b>16380</b>	16113	15839	15588
Oil Hours	<b>267</b>	274	251	363
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>12.8</b>	12.9	13.2	13.5
Base Number (BN)	mg KOH/g	<b>9.7</b>	9.7	9.3	8.9
Oxidation (PA)	%	<b>96</b>	95	100	107



### CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.3	0.1
Nitration (PA)	%	<b>76</b>	76	76	93
Sulfation (PA)	%	<b>70</b>	68	70	73
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	6	5
Sodium	ppm	<b>1</b>	3	2	3
Potassium	ppm	<b>&lt;1</b>	0	1	3



### WEAR METALS

Iron	ppm	<b>6</b>	5	6	10
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	2
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>3</b>	2	1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>44</b>	42	43	42
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1753</b>	1801	1904	1884
Magnesium	ppm	<b>506</b>	534	574	572
Zinc	ppm	<b>968</b>	933	1044	1049
Phosphorus	ppm	<b>787</b>	800	855	795
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>49</b>	51	57	61

### 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:** 10671664  
**Signed:** Wes Davis  
**Report Date:** 02 Oct 2023



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## VOLVO GRAPHS

