



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342252 - DIESEL ENGINE



**Sample No:** VCP402907  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP402907</b>	VCP385224	VCP404502	VCP406525
Sample Date	<b>19 Jul 2023</b>	06 Jun 2023	02 May 2023	22 Mar 2023
Machine Hours	<b>10659</b>	10425	10241	9960
Oil Hours	<b>234</b>	184	281	159
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>12.5</b>	12.7	12.7	12.6
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.3	8.9	10.5
Oxidation (PA)	%	<b>80</b>	79	72	74

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>50</b>	48	48	48
Sulfation (PA)	%	<b>60</b>	61	54	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	5	4	1
Sodium	ppm	<b>0</b>	2	<1	3
Potassium	ppm	<b>2</b>	3	1	<1

### WEAR METALS

Iron	ppm	<b>3</b>	2	4	4
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	1	0	0
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	1	2	1
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>43</b>	40	39	40
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>0</b>	<1	0	0

### ADDITIVES

Calcium	ppm	<b>1665</b>	1770	1786	1833
Magnesium	ppm	<b>485</b>	523	531	557
Zinc	ppm	<b>899</b>	977	931	988
Phosphorus	ppm	<b>766</b>	767	814	840
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>60</b>	62	54	43

### 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:** 10586115  
**Signed:** Jonathan Hester  
**Report Date:** 03 Aug 2023



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## VOLVO GRAPHS

