



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342608 - DIESEL ENGINE



**Sample No:** VCP402330  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP402330</b>	VCP400116	VCP398295	VCP385248
Sample Date	<b>13 Jul 2023</b>	30 May 2023	27 Apr 2023	06 Mar 2023
Machine Hours	<b>10034</b>	9778	9546	9160
Oil Hours	<b>256</b>	232	386	309
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>12.7</b>	12.8	12.8	12.6
Base Number (BN)	mg KOH/g	<b>10.0</b>	9.7	8.6	10.0
Oxidation (PA)	%	<b>81</b>	82	76	78



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>54</b>	57	57	57
Sulfation (PA)	%	<b>60</b>	62	56	61
Glycol	%	<b>NEG</b>	NEG	NEG	0.0
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	5	5	4
Sodium	ppm	<b>2</b>	4	8	21
Potassium	ppm	<b>3</b>	1	4	15



### WEAR METALS

Iron	ppm	<b>4</b>	4	8	12
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	2	3
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	40	40	41
Nickel	ppm	<b>&lt;1</b>	0	<1	2
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1659</b>	1698	1791	1683
Magnesium	ppm	<b>483</b>	496	510	482
Zinc	ppm	<b>895</b>	893	889	903
Phosphorus	ppm	<b>760</b>	714	779	761
Barium	ppm	<b>2</b>	0	0	2
Boron	ppm	<b>50</b>	47	48	64

### 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:** 10586113  
**Signed:** Jonathan Hester  
**Report Date:** 03 Aug 2023

**VOLVO** GRAPHS

