



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342608 - DIESEL ENGINE



**Sample No:** VCP405670  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP405670</b>	VCP402330	VCP400116	VCP398295
Sample Date	<b>21 Aug 2023</b>	13 Jul 2023	30 May 2023	27 Apr 2023
Machine Hours	<b>10330</b>	10034	9778	9546
Oil Hours	<b>296</b>	256	232	386
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>12.4</b>	12.7	12.8	12.8
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.0	9.7	8.6
Oxidation (PA)	%	<b>82</b>	81	82	76



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>56</b>	54	57	57
Sulfation (PA)	%	<b>61</b>	60	62	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.3</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	5	5
Sodium	ppm	<b>4</b>	2	4	8
Potassium	ppm	<b>2</b>	3	1	4

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



### WEAR METALS

Iron	ppm	<b>4</b>	4	4	8
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>37</b>	42	40	40
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1657</b>	1659	1698	1791
Magnesium	ppm	<b>523</b>	483	496	510
Zinc	ppm	<b>863</b>	895	893	889
Phosphorus	ppm	<b>729</b>	760	714	779
Barium	ppm	<b>2</b>	2	0	0
Boron	ppm	<b>41</b>	50	47	48

**Depot:** SCHGRE  
**Unique No:** 10633961  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023



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## GRAPHS

