



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342610 - DIESEL ENGINE



**Sample No:** VCP406110  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP406110</b>	VCP402329	VCP384403	VCP395617
Sample Date	<b>24 Aug 2023</b>	13 Jul 2023	30 May 2023	27 Apr 2023
Machine Hours	<b>10233</b>	9910	9672	9441
Oil Hours	<b>323</b>	238	231	367
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>	12.6	12.8	12.6
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.3	9.9	8.8
Oxidation (PA)	%	<b>80</b>	80	80	75

### 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

Soot %	%	<b>0.2</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>53</b>	51	53	53
Sulfation (PA)	%	<b>61</b>	60	61	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	2	4	5
Sodium	ppm	<b>2</b>	0	2	2
Potassium	ppm	<b>&lt;1</b>	1	0	0



### WEAR METALS

Iron	ppm	<b>5</b>	4	5	10
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	<1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>37</b>	42	40	41
Nickel	ppm	<b>&lt;1</b>	<1	<1	2
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1651</b>	1685	1720	1804
Magnesium	ppm	<b>521</b>	477	509	526
Zinc	ppm	<b>863</b>	893	915	900
Phosphorus	ppm	<b>723</b>	762	733	789
Barium	ppm	<b>2</b>	2	0	0
Boron	ppm	<b>43</b>	56	55	52

**Depot:** SCHGRE  
**Unique No:** 10633959  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023

**VOLVO** **GRAPHS**

