



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342253 - DIESEL ENGINE



**Sample No:** VCP402958  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP402958</b>	VCP384380	VCP406832	VCP406826
Sample Date	<b>19 Jul 2023</b>	07 Jun 2023	02 May 2023	22 Mar 2023
Machine Hours	<b>9967</b>	9709	9484	9169
Oil Hours	<b>258</b>	225	315	166
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	12.7	12.4
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.3	9.0	10.7
Oxidation (PA)	%	<b>80</b>	79	72	73



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.2	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>2</b>	4	5	<1
Sodium	ppm	<b>5</b>	13	29	38
Potassium	ppm	<b>6</b>	9	21	26



### WEAR METALS

Iron	ppm	<b>3</b>	4	5	4
Copper	ppm	<b>&lt;1</b>	<1	<1	4
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>2</b>	1	3	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>43</b>	40	42	42
Nickel	ppm	<b>&lt;1</b>	2	2	<1
Titanium	ppm	<b>0</b>	0	<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	0



### ADDITIVES

Calcium	ppm	<b>1683</b>	1606	1791	1829
Magnesium	ppm	<b>478</b>	485	540	560
Zinc	ppm	<b>886</b>	905	921	993
Phosphorus	ppm	<b>766</b>	744	820	840
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>56</b>	58	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:** 10586123  
**Signed:** Wes Davis  
**Report Date:** 03 Aug 2023

**VOLVO** **GRAPHS**

