



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 340668 - DIESEL ENGINE



**Sample No:** VCP405247  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP405247	VCP405985	VCP406123	VCP405994
Sample Date	24 Oct 2023	12 Sep 2023	01 Aug 2023	20 Jun 2023
Machine Hours	16708	16380	16113	15839
Oil Hours	328	267	274	251
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	13.3	12.8	12.9	13.2
Base Number (BN)	mg KOH/g	7.9	9.7	9.7	9.3
Oxidation (PA)	%	92	96	95	100



### CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.3
Nitration (PA)	%	93	76	76	76
Sulfation (PA)	%	67	70	68	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	6	6	6
Sodium	ppm	4	1	3	2
Potassium	ppm	3	<1	0	1



### WEAR METALS

Iron	ppm	9	6	5	6
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	6	3	2	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	97	44	42	43
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



### ADDITIVES

Calcium	ppm	1550	1753	1801	1904
Magnesium	ppm	656	506	534	574
Zinc	ppm	1004	968	933	1044
Phosphorus	ppm	810	787	800	855
Barium	ppm	<1	0	0	0
Boron	ppm	68	49	51	57

### 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:** 10723711  
**Signed:** Wes Davis  
**Report Date:** 02 Nov 2023



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## GRAPHS

