



# CONSTRUCTION EQUIPMENT

## 2688 VOLVO A40G 341462 - DIESEL ENGINE



**Sample No:** VCP312984  
**Oil Type:** MOBIL 15W40  
**Job No:** 2688



### SAMPLE INFORMATION

Sample Number	VCP312984	VCP339738	VCP312563	VCP396751
Sample Date	14 Nov 2023	10 Oct 2023	01 Sep 2023	26 Jul 2023
Machine Hours	17072	16887	16607	16335
Oil Hours	185	280	272	158
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	13.0	12.9	12.6	12.7
Base Number (BN)	mg KOH/g	6.7	7.4	10.1	9.8
Oxidation (PA)	%	61	64	81	76

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	68	63	52	47
Sulfation (PA)	%	50	51	61	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	5
Sodium	ppm	2	2	<1	2
Potassium	ppm	<1	<1	<1	1

### WEAR METALS

Iron	ppm	1	2	3	2
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	4	2	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	118	100	42	39
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	<1

### ADDITIVES

Calcium	ppm	1273	1362	1652	1755
Magnesium	ppm	682	614	473	527
Zinc	ppm	909	891	917	909
Phosphorus	ppm	692	753	745	756
Barium	ppm	0	0	0	0
Boron	ppm	130	92	46	52

### 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:** 10755197  
**Signed:** Jonathan Hester  
**Report Date:** 27 Nov 2023



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## VOLVO GRAPHS

