



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352349 - DIESEL ENGINE



**Sample No:** VCP396955  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP396955</b>	VCP341880	VCP405244	VCP402319
Sample Date	<b>30 Oct 2023</b>	09 Oct 2023	29 Aug 2023	19 Jul 2023
Machine Hours	<b>6234</b>	6086	5785	5478
Oil Hours	<b>148</b>	301	307	263
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>13.0</b>	12.8	12.5	12.5
Base Number (BN)	mg KOH/g	<b>7.3</b>	7.2	10.0	10.0
Oxidation (PA)	%	<b>59</b>	64	81	80

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.2	0.1
Nitration (PA)	%	<b>66</b>	66	56	53
Sulfation (PA)	%	<b>49</b>	51	61	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	4	2
Sodium	ppm	<b>4</b>	6	10	3
Potassium	ppm	<b>1</b>	3	4	4

### 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.

### WEAR METALS

Iron	ppm	<b>&lt;1</b>	3	4	2
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	10	3	<1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>114</b>	102	37	43
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1272</b>	1348	1648	1681
Magnesium	ppm	<b>685</b>	618	516	483
Zinc	ppm	<b>894</b>	887	855	896
Phosphorus	ppm	<b>727</b>	756	722	777
Barium	ppm	<b>0</b>	0	2	2
Boron	ppm	<b>124</b>	90	48	57

**Depot:** SCHGRE  
**Unique No:** 10736460  
**Signed:** Sean Felton  
**Report Date:** 10 Nov 2023



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## VOLVO GRAPHS

