



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352349 - DIESEL ENGINE



**Sample No:** VCP445797  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP445797</b>	VCP399979	VCP436361	VCP440658
Sample Date	<b>15 Apr 2024</b>	12 Mar 2024	08 Feb 2024	29 Nov 2023
Machine Hours	<b>7156</b>	6964	6743	6434
Oil Hours	<b>192</b>	221	309	200
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>12.8</b>	12.8	12.4	12.8
Base Number (BN)	mg KOH/g	<b>9.9</b>	7.9	6.5	6.8
Oxidation (PA)	%	<b>76</b>	67	60	59

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>51</b>	63	70	68
Sulfation (PA)	%	<b>58</b>	53	50	49
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.4	<1.0
Silicon	ppm	<b>3</b>	4	5	7
Sodium	ppm	<b>6</b>	5	3	11
Potassium	ppm	<b>2</b>	2	3	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>3</b>	2	3	4
Copper	ppm	<b>&lt;1</b>	<1	<1	0
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>2</b>	<1	0	0
Aluminum	ppm	<b>3</b>	5	4	9
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	87	119	131
Nickel	ppm	<b>2</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>&lt;1</b>	<1	0	0

### ADDITIVES

Calcium	ppm	<b>1750</b>	1411	1241	1296
Magnesium	ppm	<b>485</b>	582	626	691
Zinc	ppm	<b>882</b>	875	837	914
Phosphorus	ppm	<b>778</b>	757	763	737
Barium	ppm	<b>0</b>	0	12	0
Boron	ppm	<b>65</b>	93	124	140

**Depot:** SCHGRE  
**Unique No:** 11008816  
**Signed:** Wes Davis  
**Report Date:** 04 May 2024



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## VOLVO GRAPHS

