



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 752009 - DIESEL ENGINE



**Sample No:** VCP443423  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP443423</b>	VCP401119	VCP436371	VCP440663
Sample Date	<b>19 Apr 2024</b>	12 Mar 2024	08 Feb 2024	29 Nov 2023
Machine Hours	<b>1736</b>	1479	1257	907
Oil Hours	<b>257</b>	222	270	210
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>12.6</b>	12.8	12.6	12.9
Base Number (BN)	mg KOH/g	<b>10.0</b>	8.6	6.8	7.4
Oxidation (PA)	%	<b>76</b>	68	59	58

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>51</b>	61	67	65
Sulfation (PA)	%	<b>58</b>	54	50	49
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	6	5
Sodium	ppm	<b>3</b>	2	0	3
Potassium	ppm	<b>0</b>	1	1	<1



### WEAR METALS

Iron	ppm	<b>4</b>	7	7	4
Copper	ppm	<b>1</b>	3	8	4
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>2</b>	<1	0	0
Aluminum	ppm	<b>1</b>	3	2	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>45</b>	84	123	139
Nickel	ppm	<b>2</b>	2	2	<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>1751</b>	1433	1273	1373
Magnesium	ppm	<b>478</b>	577	646	730
Zinc	ppm	<b>874</b>	880	861	961
Phosphorus	ppm	<b>771</b>	752	765	770
Barium	ppm	<b>0</b>	0	12	0
Boron	ppm	<b>63</b>	92	130	154

**Depot:** SCHGRE  
**Unique No:** 11008817  
**Signed:** Wes Davis  
**Report Date:** 04 May 2024



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## GRAPHS

