



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 752009 - DIESEL ENGINE



**Sample No:** VCP401119  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP401119</b>	VCP436371	VCP440663	VCP398087
Sample Date	<b>12 Mar 2024</b>	08 Feb 2024	29 Nov 2023	30 Oct 2023
Machine Hours	<b>1479</b>	1257	907	777
Oil Hours	<b>222</b>	270	210	295
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>	12.6	12.9	12.7
Base Number (BN)	mg KOH/g	<b>8.6</b>	6.8	7.4	7.2
Oxidation (PA)	%	<b>68</b>	59	58	60

### 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>61</b>	67	65	69
Sulfation (PA)	%	<b>54</b>	50	49	50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	5	5
Sodium	ppm	<b>2</b>	0	3	1
Potassium	ppm	<b>1</b>	1	<1	<1



### WEAR METALS

Iron	ppm	<b>7</b>	7	4	4
Copper	ppm	<b>3</b>	8	4	17
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>3</b>	2	4	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>84</b>	123	139	115
Nickel	ppm	<b>2</b>	2	<1	2
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1433</b>	1273	1373	1301
Magnesium	ppm	<b>577</b>	646	730	676
Zinc	ppm	<b>880</b>	861	961	905
Phosphorus	ppm	<b>752</b>	765	770	722
Barium	ppm	<b>0</b>	12	0	0
Boron	ppm	<b>92</b>	130	154	118

**Depot:** SCHGRE  
**Unique No:** 10937560  
**Signed:** Wes Davis  
**Report Date:** 21 Mar 2024



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## GRAPHS

