



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352025 - DIESEL ENGINE



**Sample No:** VCP447441  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP447441</b>	VCP433327	VCP416984	VCP312934
Sample Date	<b>29 Apr 2024</b>	02 Apr 2024	14 Feb 2024	11 Dec 2023
Machine Hours	<b>10924</b>	10696	10331	10033
Oil Hours	<b>228</b>	365	298	92
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	12.9	13.2
Base Number (BN)	mg KOH/g	<b>9.7</b>	8.8	7.9	7.2
Oxidation (PA)	%	<b>76</b>	74	68	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>	64	62	59
Sulfation (PA)	%	<b>59</b>	57	54	50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	7	5
Sodium	ppm	<b>2</b>	2	3	1
Potassium	ppm	<b>&lt;1</b>	2	2	2



### WEAR METALS

Iron	ppm	<b>2</b>	5	5	1
Copper	ppm	<b>1</b>	1	<1	0
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	4	4	3
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>49</b>	66	77	106
Nickel	ppm	<b>0</b>	<1	2	0
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	0
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>1719</b>	1546	1251	1259
Magnesium	ppm	<b>536</b>	531	501	602
Zinc	ppm	<b>929</b>	902	790	821
Phosphorus	ppm	<b>803</b>	791	634	753
Barium	ppm	<b>0</b>	0	34	0
Boron	ppm	<b>72</b>	74	81	122

**Depot:** SCHGRE  
**Unique No:** 11018429  
**Signed:** Wes Davis  
**Report Date:** 09 May 2024

**VOLVO** **GRAPHS**

