



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 353407 - DIESEL ENGINE



**Sample No:** VCP447461  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP447461</b>	VCP435450	VCP435157	VCP416819
Sample Date	<b>06 Jun 2024</b>	29 Apr 2024	02 Apr 2024	25 Feb 2024
Machine Hours	<b>2148</b>	1863	1644	1268
Oil Hours	<b>285</b>	219	376	0
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>12.4</b>	12.6	12.7	12.8
Base Number (BN)	mg KOH/g	<b>10.0</b>	9.9	8.7	7.6
Oxidation (PA)	%	<b>78</b>	75	71	63



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>51</b>	49	64	64
Sulfation (PA)	%	<b>61</b>	59	56	52
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	7	7
Sodium	ppm	<b>2</b>	2	2	3
Potassium	ppm	<b>&lt;1</b>	0	2	2



### WEAR METALS

Iron	ppm	<b>4</b>	3	9	8
Copper	ppm	<b>3</b>	2	4	8
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	2	3	3
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>40</b>	50	75	95
Nickel	ppm	<b>0</b>	0	1	2
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	<1	<1



### ADDITIVES

Calcium	ppm	<b>1736</b>	1738	1467	1189
Magnesium	ppm	<b>535</b>	538	536	531
Zinc	ppm	<b>940</b>	928	865	785
Phosphorus	ppm	<b>842</b>	797	755	624
Barium	ppm	<b>0</b>	0	0	34
Boron	ppm	<b>53</b>	74	81	91

### 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.

**Depot:** SCHGRE  
**Unique No:** 11084098  
**Signed:** Wes Davis  
**Report Date:** 19 Jun 2024



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## GRAPHS

