



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 341127 - DIESEL ENGINE



**Sample No:** VCP412430  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP412430</b>	VCP339694	VCP404732	VCP312685
Sample Date	<b>06 Feb 2024</b>	04 Dec 2023	24 Oct 2023	14 Sep 2023
Machine Hours	<b>14222</b>	13974	13756	13477
Oil Hours	<b>248</b>	218	279	137
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>12.7</b>	12.8	12.8	12.8
Base Number (BN)	mg KOH/g	<b>7.4</b>	7.0	7.6	8.9
Oxidation (PA)	%	<b>67</b>	63	67	71

### 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>73</b>	73	72	60
Sulfation (PA)	%	<b>53</b>	51	53	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	6	4	4
Sodium	ppm	<b>4</b>	0	3	2
Potassium	ppm	<b>3</b>	2	2	1



### WEAR METALS

Iron	ppm	<b>5</b>	3	2	2
Copper	ppm	<b>1</b>	<1	<1	0
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	3	5	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>97</b>	117	113	97
Nickel	ppm	<b>1</b>	2	<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>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1192</b>	1286	1340	1664
Magnesium	ppm	<b>540</b>	638	664	647
Zinc	ppm	<b>793</b>	854	934	1003
Phosphorus	ppm	<b>636</b>	710	789	851
Barium	ppm	<b>34</b>	11	<1	0
Boron	ppm	<b>97</b>	133	106	104

**Depot:** SCHGRE  
**Unique No:** 10898189  
**Signed:** Don Baldrige  
**Report Date:** 27 Feb 2024

**VOLVO** **GRAPHS**

