



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 341 127 - DIESEL ENGINE



**Sample No:** VCP433211  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP433211</b>	VCP412430	VCP339694	VCP404732
Sample Date	<b>27 Mar 2024</b>	06 Feb 2024	04 Dec 2023	24 Oct 2023
Machine Hours	<b>14533</b>	14222	13974	13756
Oil Hours	<b>311</b>	248	218	279
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**SCHILDBERG CONSTRUCTION COMPANY**  
 PO BOX 358  
 GREENFIELD, IA  
 US 50849  
 Contact: SCOTT ARMSTRONG  
 sarmstrong@schildberg.com  
 T: (641)743-8237  
 F: (641)743-2486



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.7	12.8	12.8
Base Number (BN)	mg KOH/g	<b>6.4</b>	7.4	7.0	7.6
Oxidation (PA)	%	<b>65</b>	67	63	67

### 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>0.2</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>81</b>	73	73	72
Sulfation (PA)	%	<b>52</b>	53	51	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	8	6	4
Sodium	ppm	<b>2</b>	4	0	3
Potassium	ppm	<b>2</b>	3	2	2



### WEAR METALS

Iron	ppm	<b>4</b>	5	3	2
Copper	ppm	<b>&lt;1</b>	1	<1	<1
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	4	3	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>124</b>	97	117	113
Nickel	ppm	<b>2</b>	1	2	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1298</b>	1192	1286	1340
Magnesium	ppm	<b>647</b>	540	638	664
Zinc	ppm	<b>830</b>	793	854	934
Phosphorus	ppm	<b>705</b>	636	710	789
Barium	ppm	<b>0</b>	34	11	<1
Boron	ppm	<b>141</b>	97	133	106

**Depot:** SCHGRE  
**Unique No:** 10963039  
**Signed:** Don Baldrige  
**Report Date:** 06 Apr 2024

**VOLVO** **GRAPHS**

