



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 340668 - DIESEL ENGINE



**Sample No:** VCP406123  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP406123</b>	VCP405994	VCP386179	VCP384415
Sample Date	<b>01 Aug 2023</b>	20 Jun 2023	10 May 2023	27 Mar 2023
Machine Hours	<b>16113</b>	15839	15588	15225
Oil Hours	<b>274</b>	251	363	193
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>12.9</b>	13.2	13.5	13.4
Base Number (BN)	mg KOH/g	<b>9.7</b>	9.3	8.9	9.1
Oxidation (PA)	%	<b>95</b>	100	107	96



### CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.1	0.1
Nitration (PA)	%	<b>76</b>	76	93	83
Sulfation (PA)	%	<b>68</b>	70	73	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	5	6
Sodium	ppm	<b>3</b>	2	3	3
Potassium	ppm	<b>0</b>	1	3	<1



### WEAR METALS

Iron	ppm	<b>5</b>	6	10	8
Copper	ppm	<b>&lt;1</b>	<1	<1	0
Lead	ppm	<b>0</b>	0	2	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>2</b>	1	2	<1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>42</b>	43	42	44
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1801</b>	1904	1884	1722
Magnesium	ppm	<b>534</b>	574	572	537
Zinc	ppm	<b>933</b>	1044	1049	976
Phosphorus	ppm	<b>800</b>	855	795	792
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>51</b>	57	61	59

### 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:** 10617106  
**Signed:** Wes Davis  
**Report Date:** 24 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

