



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342374 - DIESEL ENGINE



**Sample No:** VCP441993  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441993</b>	VCP441996	VCP445793	VCP398006
Sample Date	<b>05 Feb 2024</b>	19 Dec 2023	06 Dec 2023	29 Aug 2023
Machine Hours	<b>11098</b>	10915	10857	10584
Oil Hours	<b>183</b>	58	273	255
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	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>12.7</b>	12.9	12.7	12.3
Base Number (BN)	mg KOH/g	<b>9.3</b>	8.8	7.4	9.8
Oxidation (PA)	%	<b>70</b>	67	68	76



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.2	0.1
Nitration (PA)	%	<b>52</b>	51	65	49
Sulfation (PA)	%	<b>57</b>	55	54	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.6
Silicon	ppm	<b>5</b>	6	6	4
Sodium	ppm	<b>7</b>	7	37	8
Potassium	ppm	<b>8</b>	7	29	4



### WEAR METALS

Iron	ppm	<b>5</b>	4	12	<1
Copper	ppm	<b>1</b>	<1	2	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	2	5	1
Chromium	ppm	<b>0</b>	0	<1	0
Molybdenum	ppm	<b>64</b>	73	95	37
Nickel	ppm	<b>&lt;1</b>	2	▲ 14	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1497</b>	1401	1508	1592
Magnesium	ppm	<b>521</b>	534	620	513
Zinc	ppm	<b>853</b>	826	938	872
Phosphorus	ppm	<b>795</b>	757	757	753
Barium	ppm	<b>12</b>	12	0	0
Boron	ppm	<b>85</b>	98	99	44

### 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:** 10876036  
**Signed:** Sean Felton  
**Report Date:** 15 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

