



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352566 - DIESEL ENGINE



**Sample No:** VCP404642  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP404642</b>	VCP401928	VCP384399	VCP398290
Sample Date	<b>21 Aug 2023</b>	13 Jul 2023	30 May 2023	27 Apr 2023
Machine Hours	<b>4239</b>	3940	3634	3468
Oil Hours	<b>299</b>	306	226	387
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>12.4</b>	12.6	12.7	12.7
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.1	9.8	8.6
Oxidation (PA)	%	<b>80</b>	80	80	76



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>55</b>	53	55	53
Sulfation (PA)	%	<b>61</b>	60	62	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	4	6
Sodium	ppm	<b>2</b>	0	2	1
Potassium	ppm	<b>&lt;1</b>	2	0	0



### WEAR METALS

Iron	ppm	<b>4</b>	4	3	5
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>37</b>	43	40	42
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1669</b>	1689	1694	1840
Magnesium	ppm	<b>522</b>	489	499	536
Zinc	ppm	<b>867</b>	913	897	920
Phosphorus	ppm	<b>732</b>	776	722	804
Barium	ppm	<b>2</b>	2	0	0
Boron	ppm	<b>49</b>	53	53	52

### 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:** 10633962  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

