



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352026 - DIESEL ENGINE



**Sample No:** VCP442539  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP442539</b>	VCP399417	VCP436365	VCP445742
Sample Date	<b>15 Apr 2024</b>	12 Mar 2024	08 Feb 2024	29 Nov 2023
Machine Hours	<b>10378</b>	10136	9959	9644
Oil Hours	<b>242</b>	177	315	186
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>	12.6	12.4	13.0
Base Number (BN)	mg KOH/g	<b>9.7</b>	8.6	6.5	7.0
Oxidation (PA)	%	<b>76</b>	69	60	58

### 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>53</b>	58	69	66
Sulfation (PA)	%	<b>58</b>	54	50	48
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.5	<1.0
Silicon	ppm	<b>5</b>	4	6	5
Sodium	ppm	<b>6</b>	4	2	6
Potassium	ppm	<b>1</b>	2	2	2



### WEAR METALS

Iron	ppm	<b>4</b>	3	4	2
Copper	ppm	<b>&lt;1</b>	<1	<1	0
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>2</b>	<1	0	0
Aluminum	ppm	<b>2</b>	4	3	5
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>45</b>	80	118	129
Nickel	ppm	<b>2</b>	<1	<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	0	0
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1783</b>	1445	1252	1265
Magnesium	ppm	<b>481</b>	568	623	677
Zinc	ppm	<b>885</b>	866	836	885
Phosphorus	ppm	<b>777</b>	742	788	729
Barium	ppm	<b>0</b>	0	12	0
Boron	ppm	<b>63</b>	88	127	145

**Depot:** SCHGRE  
**Unique No:** 11008815  
**Signed:** Wes Davis  
**Report Date:** 04 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

