



# CONSTRUCTION EQUIPMENT

## 10009 VOLVO A35G 340110 - DIESEL ENGINE



**Sample No:** VCP388522  
**Oil Type:** CHEVRON 15W40  
**Job No:** 10009



### SAMPLE INFORMATION

Sample Number	<b>VCP388522</b>	VCP371060	VCP355136	VCP316973
Sample Date	<b>04 Dec 2023</b>	06 Feb 2023	15 Jun 2022	20 Sep 2021
Machine Hours	<b>7486</b>	6653	5899	5161
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**CLEAN EARTH - WALDORF**  
 16301 GARDNER RD  
 WALDORF, MD  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.5	12.4	12.3
Base Number (BN)	mg KOH/g	<b>6.1</b>	7.3	7.5	---
Oxidation (PA)	%	<b>69</b>	69	70	73

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.3	0.2
Nitration (PA)	%	<b>72</b>	73	74	74
Sulfation (PA)	%	<b>65</b>	63	63	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	5	4
Sodium	ppm	<b>2</b>	2	1	2
Potassium	ppm	<b>2</b>	3	1	0

### WEAR METALS

Iron	ppm	<b>12</b>	9	11	9
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>1</b>	2	2	1
Tin	ppm	<b>1</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	3	5	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>97</b>	112	118	103
Nickel	ppm	<b>1</b>	<1	0	0
Titanium	ppm	<b>2</b>	<1	<1	2
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>1437</b>	1442	1500	1537
Magnesium	ppm	<b>464</b>	520	638	651
Zinc	ppm	<b>1132</b>	978	903	924
Phosphorus	ppm	<b>909</b>	796	720	727
Barium	ppm	<b>11</b>	0	0	0
Boron	ppm	<b>281</b>	280	280	209

### 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:** CLEWAL  
**Unique No:** 10782848  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023



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## GRAPHS

