



# CONSTRUCTION EQUIPMENT

## 9396 VOLVO A25G 742359 - DIESEL ENGINE



**Sample No:** VCP412710  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9396



### SAMPLE INFORMATION

Sample Number	VCP412710	VCP338108	VCP274568	VCP255784
Sample Date	28 Jul 2023	02 Feb 2022	06 May 2020	06 Oct 2019
Machine Hours	2092	1471	996	527
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL

**RELIABLE CONTRACTING**  
 2410 EVERGREEN RD SUITE 200  
 GAMBRILLS, MD  
 US 21054  
 Contact: RUSSELL HATFIELD  
 RHATFIELD@RELIABLECONTRACTING.COM  
 T: (410)987-1851  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	▲ 10.7	▲ 11.3	10.5	10.1
Base Number (BN)	mg KOH/g	■ 7.4	■ 7.3	---	---
Oxidation (PA)	%	■ 65	60	60	56

### CONTAMINATION

Soot %	%	■ 0.3	■ 0.2	■ 0.2	■ 0.3
Nitration (PA)	%	■ 70	83	72	57
Sulfation (PA)	%	■ 59	57	56	51
Glycol	%	■ NEG	NEG	NEG	NEG
Fuel	%	▲ 5.6	▲ 5.4	<1.0	<1.0
Silicon	ppm	■ 6	■ 6	■ 10	▲ 37
Sodium	ppm	■ 0	■ 0	■ 2	■ 2
Potassium	ppm	■ 1	■ 2	■ 0	■ 3

### WEAR METALS

Iron	ppm	■ 8	■ 6	■ 9	■ 19
Copper	ppm	■ 3	■ 16	■ 121	▲ 380
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ 0	■ 2
Aluminum	ppm	■ 4	■ 4	■ 2	■ 3
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 99	■ 30	■ 24	■ 7
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	2	■ 14	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ <1	■ <1	■ <1	■ 3
Vanadium	ppm	0	<1	0	0

### ADDITIVES

Calcium	ppm	■ 1406	■ 1694	■ 1500	■ 2119
Magnesium	ppm	■ 570	■ 755	■ 551	113
Zinc	ppm	■ 774	■ 852	■ 880	■ 1098
Phosphorus	ppm	■ 660	■ 764	■ 790	■ 869
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 242	■ 72	■ 52	■ 4

### Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** RELMIL  
**Unique No:** 10586159  
**Signed:** Don Baldrige  
**Report Date:** 05 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

