



# CONSTRUCTION EQUIPMENT

## 433110 STONE PLUS VOLVO L30G 3221516 - DIESEL ENGINE



**Sample No:** VCP413545  
**Oil Type:** NOT GIVEN  
**Job No:** 433110 STONE PLUS



### SAMPLE INFORMATION

Sample Number	VCP413545	VCP0006233	---	---
Sample Date	16 Dec 2023	21 Feb 2023	---	---
Machine Hours	5442	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	SEVERE	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	▲ 11.2	---	---
Base Number (BN)	mg KOH/g	■ 7.0	■ 5.4	---	---
Oxidation (PA)	%	■ 101	139	---	---

### Diagnosis

We advise that you check the fuel injection system. The oil 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.



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.4	■ 0.6	---	---
Nitration (PA)	%	■ 103	128	---	---
Sulfation (PA)	%	■ 67	81	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 6.4	■ 13.2	---	---
Silicon	ppm	■ 5	■ 9	---	---
Sodium	ppm	■ 4	■ 10	---	---
Potassium	ppm	■ 0	■ 10	---	---



### WEAR METALS

Iron	ppm	■ 21	■ 50	---	---
Copper	ppm	■ 1	■ 4	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 1	■ 3	---	---
Chromium	ppm	■ <1	■ 1	---	---
Molybdenum	ppm	■ 41	■ 44	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	<1	0	---	---



### ADDITIVES

Calcium	ppm	■ 1534	■ 1767	---	---
Magnesium	ppm	■ 523	■ 470	---	---
Zinc	ppm	■ 1089	■ 1146	---	---
Phosphorus	ppm	■ 920	■ 876	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 26	■ 23	---	---

**Depot:** VOLVO0092  
**Unique No:** 10803543  
**Signed:** Jonathan Hester  
**Report Date:** 29 Dec 2023



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## GRAPHS

