



# CONSTRUCTION EQUIPMENT

## 1626 VOLVO L120H 632388 - DIESEL ENGINE



**Sample No:** VCP414898

**Oil Type:** NOT GIVEN

**Job No:** 1626



### SAMPLE INFORMATION

Sample Number	VCP414898	---	---	---
Sample Date	08 Sep 2023	---	---	---
Machine Hours	3456	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	---	---	---
Base Number (BN)	mg KOH/g	█ 4.9	---	---	---
Oxidation (PA)	%	76	---	---	---



### CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 5	---	---	---



### WEAR METALS

Iron	ppm	█ 13	---	---	---
Copper	ppm	▲ 137	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 48	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 13	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	█ 1645	---	---	---
Magnesium	ppm	█ 828	---	---	---
Zinc	ppm	█ 896	---	---	---
Phosphorus	ppm	736	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 71	---	---	---

### Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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 acceptable for the time in service.

**Depot:** VOLVO4486  
**Unique No:** 10670482  
**Signed:** Don Baldrige  
**Report Date:** 01 Oct 2023



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## GRAPHS

