



# CONSTRUCTION EQUIPMENT

## VOLVO 30002 - DIESEL ENGINE



**Sample No:** VCP265275  
**Oil Type:** NOT GIVEN  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP265275	---	---	---
Sample Date	18 Aug 2023	---	---	---
Machine Hours	13951	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 14.9	---	---	---
Base Number (BN)	mg KOH/g	█ 5.9	---	---	---
Oxidation (PA)	%	82	---	---	---



### CONTAMINATION

Soot %	%	█ 1.4	---	---	---
Nitration (PA)	%	92	---	---	---
Sulfation (PA)	%	77	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 163	---	---	---
Sodium	ppm	█ 10	---	---	---
Potassium	ppm	█ 16	---	---	---



### WEAR METALS

Iron	ppm	● 320	---	---	---
Copper	ppm	█ 39	---	---	---
Lead	ppm	█ 21	---	---	---
Tin	ppm	█ 9	---	---	---
Aluminum	ppm	▲ 53	---	---	---
Chromium	ppm	█ 16	---	---	---
Molybdenum	ppm	█ 8	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	3	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	█ 2269	---	---	---
Magnesium	ppm	█ 165	---	---	---
Zinc	ppm	█ 1263	---	---	---
Phosphorus	ppm	█ 1002	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 56	---	---	---

### Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO0015  
**Unique No:** 10644711  
**Signed:** Don Baldrige  
**Report Date:** 14 Sep 2023



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## GRAPHS

