



# CONSTRUCTION EQUIPMENT

## 541 VOLVO L70GLB 614545 - DIESEL ENGINE



**Sample No:** VCP414442  
**Oil Type:** MOBIL 15W40  
**Job No:** 541



### SAMPLE INFORMATION

Sample Number	VCP414442	VCP288850	---	---
Sample Date	07 Nov 2023	13 Nov 2020	---	---
Machine Hours	1380	3838	---	---
Oil Hours	0	3838	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 12345 MAPLEVIEW STREET  
 LAKESIDE, CA  
 US 92040  
 Contact: Mark Stewart  
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 T: X  
 F: X



### OIL CONDITION

Visc @ 100°C	cSt	█ 12.1	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	79	83	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.4	---	---
Nitration (PA)	%	56	88	---	---
Sulfation (PA)	%	59	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 2.5	<1.0	---	---
Silicon	ppm	█ 8	█ 7	---	---
Sodium	ppm	█ 3	█ 3	---	---
Potassium	ppm	█ <1	█ 8	---	---



### WEAR METALS

Iron	ppm	█ 18	█ 45	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ <1	█ 6	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 21	█ 26	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 35	█ 4	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	0	█ <1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	█ 1547	█ 1480	---	---
Magnesium	ppm	█ 484	█ 732	---	---
Zinc	ppm	█ 1034	█ 731	---	---
Phosphorus	ppm	█ 883	█ 648	---	---
Barium	ppm	█ 0	█ 1	---	---
Boron	ppm	█ 59	█ 29	---	---

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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:** VOLVO4488  
**Unique No:** 10743051  
**Signed:** Wes Davis  
**Report Date:** 20 Nov 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

