



# CONSTRUCTION EQUIPMENT

RENTAL VOLVO L90H 627130 - DIESEL ENGINE



**Sample No:** VCP447449  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** RENTAL



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## SAMPLE INFORMATION

Sample Number	VCP447449	---	---	---
Sample Date	14 Mar 2024	---	---	---
Machine Hours	646	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	75	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---



## WEAR METALS

Iron	ppm	█ 26	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 34	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 60	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1625	---	---	---
Magnesium	ppm	█ 595	---	---	---
Zinc	ppm	█ 1234	---	---	---
Phosphorus	ppm	█ 1087	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 124	---	---	---

## Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. 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:** VOLVO0093  
**Unique No:** 10940250  
**Signed:** Don Baldrige  
**Report Date:** 26 Mar 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

